

100-001 5-2-59

Scout Report sent out



Noted in the NID File



Location map pinned



Approval or Disapproval Letter



Date Completed, P. & A, or  
operations suspended

4-20-59

Pin changed on location map



Affidavit and Record of A & P



Water Shut-Off Test



Gas-Off Ratio Test



Well Log Filed



*Submitted to water inspector 5-3-63*

#### FILE NOTATIONS

Entered in NID File



Entered on S.R. Sheet



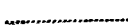
Location Map Pinned



Card Indexed



W.R. for State or Fee Land



Checked by Chief

.....

Copy NID to Field Office

.....

Approval Letter

.....

Disapproval Letter

.....

#### COMPLETION DATA:

Date Well Completed

4/20/59

Location Inspected

.....

OW

WW

TA

Bond released

.....

GW

OS

PA

State of Fee Land

.....

#### LOGS FILED

Drill's Log

5/4/59

Electric Logs (No.)

1

E

I

E-I

GR

GR-N

Micro

Jat

Mi-L

Sonic

Others

*Nuclear*

(SUBMIT IN TRIPLICATE)

Indian Agency **NAVAJO**

29		
		X

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYAllottee \_\_\_\_\_  
Lease No. **14-20-603-407**

Conoco No. 70350

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 9, 1959

Navajo  
Well No. **B-13** is located **1980** ft. from **XXX** line and **660** ft. from **[E]** line of sec. **29**  
**SE 1/4 Sec. 29** **T41S** **R24E** **S.1.B.M.**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**White Mesa** **San Juan County** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4877** ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill this well with rotary tools to an estimated depth of 5800' to test the Paradox formation. Approximately 150' of 13 3/8" surface casing will be run and cemented and if water flows or unconsolidated sands are encountered, approximately 1300' of 8 5/8" intermediate casing will be run and cemented. If commercial production is found, a string of 5 1/2" production casing will be run and cemented and the well completed.

The above description of the well location is in relation to section lines established by private survey. Such location, with respect to the lease boundaries is shown on the attached plat marked Exhibit "A".

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Continental Oil Company**Address **Box 3312**  
**Durango, Colorado**By **ORIGINAL SIGNED BY  
BUTTON HALL**Title **District Superintendent**

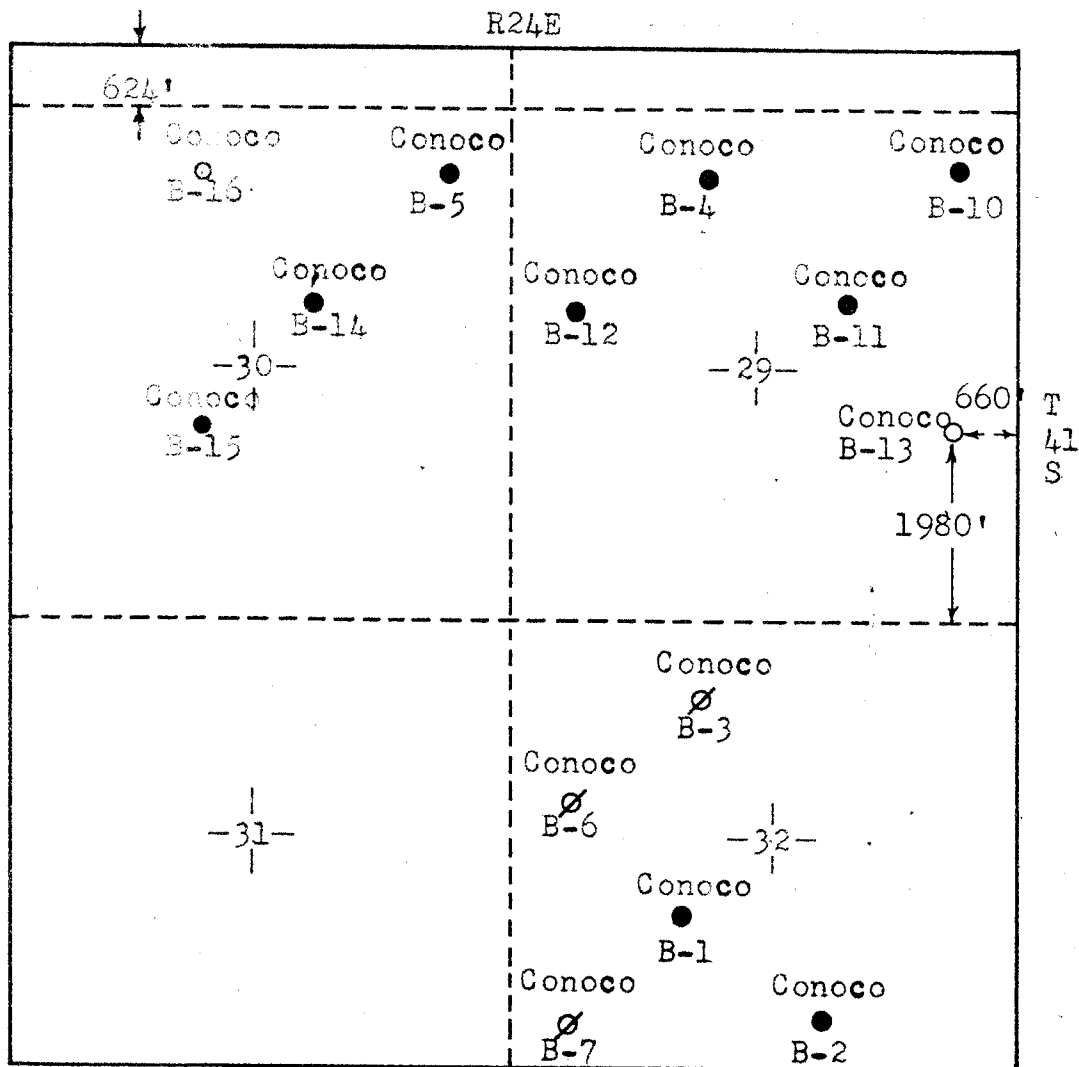
WAB-ec

U. S. GOVERNMENT PRINTING OFFICE 16-8437b-8

USOS( 4), UTAH O&amp;GOC(2), LCH, PER, JBN

Exhibit "A"

To Notice of Intention to Drill for  
Well No. Navajo B-13 (Continental)  
Indian Lease No. 14-20-603-407



T41S - R24E  
San Juan County, Utah

Scale 1" = 2000'

————— Lease Boundary  
----- Section Lines

March 12, 1959

Continental Oil Company  
P. O. Box 3312  
Durango, Colorado

Attention: Burton Hall,  
District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo E-13, which is to be located 1980 feet from the south line and 660 feet from the east line of Section 29, Township 41 South, Range 24 East, SLBM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE SECRETARY

CBF:co

cc: Phil McGrath, Dist. Eng.  
USGS, Farmington,  
New Mexico



(SUBMIT IN TRIPLICATE)

Indian Agency NAVAJO

29		
		X

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYAllottee \_\_\_\_\_  
Lease No. 14-20-603-407

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 28, 1959

Navajo  
Well No. B-13 is located 1980 ft. from S line and 660 ft. from E line of sec. 29

<u>SE 1/4 Sec. 29</u> (1/4 Sec. and Sec. No.)	<u>T41S</u> (Twp.)	<u>R24E</u> (Range)	<u>51MM</u> (Meridian)
<u>White Mesa</u> (Field)	<u>San Juan County</u> (County or Subdivision)		<u>Utah</u> (State or Territory)

The elevation of the derrick floor above sea level is 4877 ft.

## DETAILS OF WORK

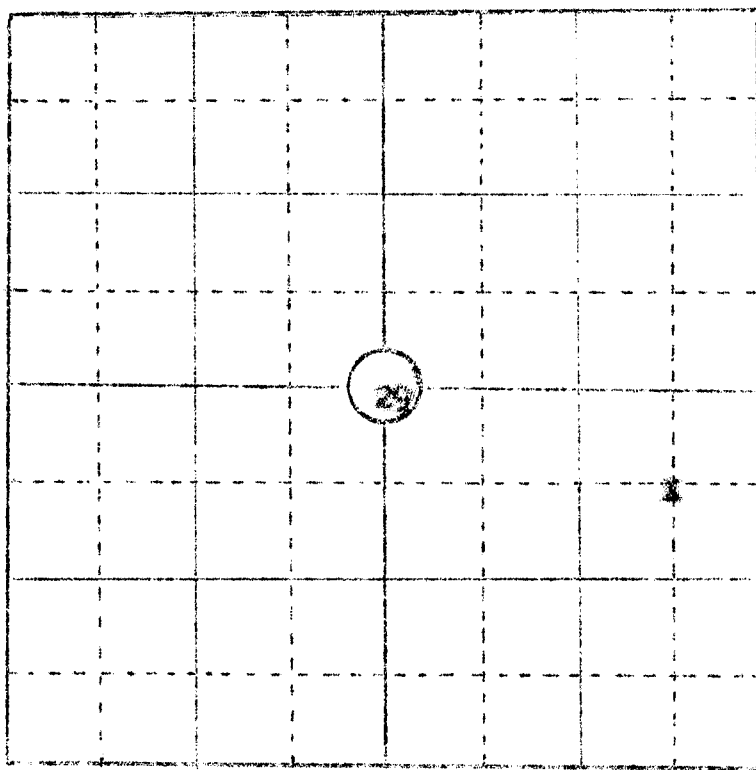
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

Spudded 3-26-58, drilled with rotary tools to 5805' TD., 5800' P.D. Cored 5627'-5782'. DST 5627'-5782', recovered 500' heavily oil & gas cut mud. Set and cemented surface & production casing as follows: 5 jts., 13 3/8" @ 160' with 200 sacks regular & 183 jts., 5 1/2" @ 5805' with 275 sacks regular & 75 cu. ft. perlite. Perforated 5613-45', 5650-56' & 5666-89' with 4 jets per ft. Set packer @ 5511' & acidized with 1000 gals. HCl & swabbed. Acidized with 25,000 gals. HV retarded, 2500 gals. 15% & two 750 gal. temporary plugs. Pulled packer, landed 2 7/8" tubing @ 5673', swabbed & flowed well & released rig 4-19-59. IFP 1056 BOPD on 1/2" choke based on test of 44 BOPH for 12 hrs. T.P. 200#, cut .8% BS&W, gravity 42.1 @ 60°. Completed as a flowing well in the Paradox formation.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Continental Oil CompanyAddress Box 3312Durango, ColoradoORIGINAL SIGNED BY:  
By BURTON HALLTitle District SuperintendentWAB-ec  
USGS(3), UTAH O&G(2), LWH, JBH

Company Continental Oil Company  
Lease 1416-1000 Well No. 1416-10-13  
Sec. 20, T 41N, R 24E  
County Garfield State Utah  
Location East 1/4, 1416-1000  
Elevation 4000



Scale-4 inches equal 1 mile

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Harold H. Burd  
Registered Professional Engineer  
and Land Surveyor  
Wyoming License No. 425

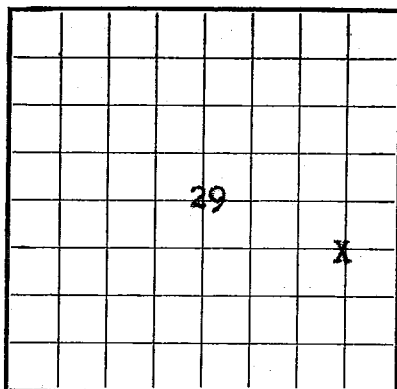
Surveyed June 13, 1958

WYOMING STATE ENGINEER, LAND SURVEYOR, JUNE 13, 1958

Form 9-330

U. S. LAND OFFICE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

Navajo Tribe  
Lease No. 14-20-603-407



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

7/1/6  
5/5

LOG OF OIL OR GAS WELL

Company Continental Oil Company Address Box 3312, Durango, Colorado  
Lessor or Tract Navajo Field White Mesa State Utah  
Well No. B-13 Sec. 29 T. 41SR. 24E Meridian SLBM County San Juan  
Location 1980 ft. [N.] of S. Line and 660 ft. [W.] of E. Line of Sec. 29 Elevation 4877'  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

ORIGINAL SIGNED BY:

Signed BURTON HALL

Date April 28, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 26, 1959 Finished drilling April 19 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13 3/8	48#	8rd	H-40	149'	Weatherford				Surface Production
5 1/2	15.5#	8rd	J-55	391'	Baker		5613	5645	
5 1/2	14#	8rd	J-55	5447'			5650	5656	
							5666	5689	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	160' RB	200 regular	displacement		
5 1/2	5805' RB	275 regular + 75 perlite	Displacement		

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

FOLD MARK

# MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	160' RB	200 regular	displacement		
5 1/2	5805' RB	275 regular + 75 perlite	Displacement		

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to **5805** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

\_\_\_\_\_ April 28, 19 **59** Put to producing \_\_\_\_\_ April 20, 19 **59**  
 The production for the first 24 hours **WFP 1056** barrels of fluid of which **99.2** % was oil; **.8** %  
 emulsion; \_\_\_\_\_ % water; and **Based on test of 44 BOPM for 72 hrs.**  
**XXXXXXX** If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas **xx API 42.1 @ 60°**  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2382	2484	102	Shinarump
2484	2895	411	Cutler
2895	3574	679	Organ Rock
3574	4617	1043	Cedar Mesa
4617	5426	809	Hermosa
5426	5610	184	Paradox
5610	5805	195	Aneth

(OVER)

16-43094-4

WAB-ec  
 USGS(3), UTAH O&A (2), REW, JBH

6961 MAY 4 1959

WELL NO. 1

WELL NO.	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
1	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
2	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
3	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
4	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
5	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
6	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
7	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
8	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
9	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH
10	WELL NAME	WELL TYPE	WELL STATUS	WELL LOCATION	WELL DEPTH

# HISTORY OF OIL OR GAS WELL

16-48004-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 3-26-59, set 5 jts., 13 3/8" surface casing @ 160' cemented with 200 sacks regular. Cored 5627'-5782'. DST 5627'-5782', recovered 500' heavily oil & gas cut mud. Drilled to 5805' TD. Set 183 jts., 5 1/2" production casing @ 5805' cemented with 75 sacks regular with 75 cu. ft. perlite followed with 200 sacks regular. 5800' P.D. Perforated 5613-45', 5650-56' and 5666-89' with 4 jets per ft. Ran tubing with packer at 5511', acidized with 1000 gals. MCA and swabbed. Acidized with 25,000 gals. HV retarded, 2,500 gals. 15% and two 750 gal. temporary plugs. Pulled packer, landed 2 7/8" tubing at 5673' and swabbed and flowed well. Released rig 4-19-59 and tested well. IFP 1056 BOPD on 1/2" choke based on test of 44 BOPH on 12 hr. test. T.F. 200#, cut .8% BS&W, gravity 42.1 at 60°, estimated GOR 500/1, Utah allowable 348 BOPD. Completed as a flowing well in the Paradox formation.

WELL NO. 1

WELL NAME

WELL TYPE

WELL STATUS

WELL LOCATION

WELL DEPTH

WELL NO. 1

WELL NAME

WELL TYPE

WELL STATUS

WELL LOCATION

WELL DEPTH

WELL NO. 1

WELL NAME

WELL TYPE

WELL STATUS

WELL LOCATION

WELL DEPTH

WELL NO. 1

WELL NAME

WELL TYPE

WELL STATUS

WELL LOCATION

WELL DEPTH

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

# HISTORY OF OIL OR GAS WELL

WELL NO. 1

WELL NAME

WELL TYPE

WELL STATUS

WELL LOCATION

WELL DEPTH

WELL NO. 1

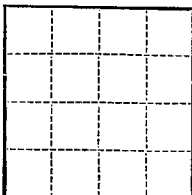
WELL NAME

WELL TYPE

WELL STATUS

WELL LOCATION

WELL DEPTH



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R359.4.

Indian Agency Navajo

Allottee Tribal

Lease No. 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			
Notice of Intention to perforate	<input checked="" type="checkbox"/>		

Desert Creek 5723-28, (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

5737-42' and convert to water injection.

Cortez, Colorado March 20, 19 63

Ratherford Unit (Formerly Continental Oil Co. Navajo B-13)

Well No. 29-43 is located 1980 ft. from S line and 660 ft. from E line of sec. 29

SR/4 29

41S

24E

SLBM

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Greater Aneth

San Juan

Utah

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is 4877 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Kill well. Pull rods and tubing. Jet perforate Desert Creek Zone with 4 holes per foot 5723-28', 5737-42'. Run 2-1/2" Marlex plastic lined tubing with Baker Tension Packer set approximately 5560' and convert to water injection.

Present Production: 36 BO, 240 MCF Gas, 0 water in 24 hours pumping.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PHILLIPS PETROLEUM COMPANY

Address P. O. Drawer 1150, Cortez, Colo.

By C. H. Boles

Title Dist. Supt.



## PHILLIPS PETROLEUM COMPANY

P. O. Drawer 1150  
Cortez, Colorado

May 7, 1963

Utah Oil & Gas Conservation Commission  
310 Townhouse Building  
Salt Lake City, Utah

Attention: Mr. Cleon B. Feight

Dear Sirs:

In accordance with Rule E-4 of the Utah General Rules and Regulations, we wish to advise that the following wells located on the Rutherford Unit in San Juan County, Utah, were converted to water injection wells.

<u>Old Well No.</u>	<u>New Well No.</u>	<u>Date Converted</u>	<u>Injection Rate</u>	<u>Injection Pressure</u>
15-43	15W43	5/4/63	432 BWPD	1725#
22-21	22W21	5/3/63	26 BWPD	1750#
21-43	21W43	5/3/63	1053 BWPD	Gravity
29-43	29W43	5/3/63	871 BWPD	Gravity

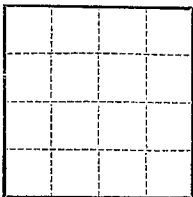
Details of the above conversions will be furnished on USGS Form No. 9-331b in the near future.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

C. M. Boles  
District Superintendent

HGC/bh



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R359.4.

Navejo

Indian Agency

AlLOTtee Tribal

Lease No. 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Subsequent report to perforate	X
	Desert Creek 5723-28, 5737-42 & convert to	
	water injection.	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

(Formerly Continental Navejo D-13 & Cortez, Colorado May 17 63  
Batherford Unit 29-43) 19  
Batherford nit  
Well No. 29-43 is located 1980 ft. from {N} line and 660 ft. from {E} line of sec. 29  
SE/4 29 41S 24E 18W  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Greater Aneth San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4877 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

4-28-63 through 5-4-63  
Correlated casing collars with wire line, corrected ID from 5800' to 5789' PB, perforated 5-1/2" casing in Desert Creek 5723-28 and 5737-42', ran 2-1/2" tubing and Marlex liner with Tension packer, hooked up for injection, started injecting 5-3-63. Changed well classification from Oil well to water Injection well and name from #29-43 to 29-43.

Previous Production: 81 BO, 320 MCF Gas, 0 Water.  
Present: Injected 871 BW in 24 hours at Gravity.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PHILLIPS PETROLEUM COMPANY

Address P. O. Drawer 1150

Cortez, Colorado

By C. H. Boles  
Title District Superintendent



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

29W43

10. FIELD AND POOL, OR WILDCAT

Greater Anoth

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

29-41S-24E, SLEM

12. COUNTY OR ~~BLK.~~ 13. STATE  
San Juan Utah

1. OIL ☐ WELL GAS ☐ WELL OTHER ☒ Water Injection well

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Drawer 1150, Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1980' FSL, 660' FEL, Sec. 29-41S-24E  
SE/4

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4877' ground

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

~~SHOOTING~~ ACIDIZE ☒

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Acidize water injection well with 2,000 gallons regular acid, 200 gallons Block,  
and 2,000 gallons regular acid in attempt to increase Water Injection rate.

Present Injection Rate: Injecting 598 BWPD at 2375#.

18. I hereby certify that the foregoing is true and correct

SIGNED C. H. Boles

TITLE Area Superintendent

DATE 10-9-64

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN REVERSE SIDE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Water Injection</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-603-407</b>
2. NAME OF OPERATOR <b>Phillips Petroleum Company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>
3. ADDRESS OF OPERATOR <b>P. O. Drawer 1150, Cortez, Colorado</b>		7. UNIT AGREEMENT NAME <b>SW-1-4192</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1980' FSL, 660' FEL, Sec. 29-41S-24E, SE/4</b>		8. FARM OR LEASE NAME <b>Ratherford Unit</b>
14. PERMIT NO.		9. WELL NO. <b>29W43</b>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4877' ground</b>		10. FIELD AND POOL, OR WILDCAT <b>Greater Aneth</b>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>29-41S-24E, SE/4</b>
		12. COUNTY OR <del>PARISH</del> <b>San Juan</b>
		13. STATE <b>Utah</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

~~WATER SHUT-OFF~~ ACIDIZING ☒

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On October 15, 1964, acidized well with 2000 gallons regular acid, 200 gallons Jel X-830 block, 2000 gallons 15% regular acid. Resumed injection.

Previous Injection Rate from Greater Aneth Field, Paradox formation, Desert Creek zone: Injected 598 BW in 24 hrs at 2375#.

Injection Rate after treatment: Injected 409 BW in 24 hrs at 2150#.  
Greater Aneth Field  
Paradox formation  
Desert Creek Zone

18. I hereby certify that the foregoing is true and correct

SIGNED

**C. H. Boles**

TITLE

**Area Superintendent**

DATE

**10-22-64**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Water Injection Well</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-603-355</b>	
2. NAME OF OPERATOR <b>Phillips Petroleum Company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>	
3. ADDRESS OF OPERATOR <b>P. O. Drawer 1150, Cortez, Colorado 81321</b>		7. UNIT AGREEMENT NAME <b>SW-I-4192</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1950' FSL and 940' FWL of Section 15, NE, SE Sec. 15</b>		8. FARM OR LEASE NAME <b>Ratherford Unit</b>	
14. PERMIT NO.		9. WELL NO. <b>15W43</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4597' ungraded ground</b>		10. FIELD AND POOL, OR WILDCAT <b>Greater Aneth</b>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>15-418-24E, SIM</b>	
		12. COUNTY OR PARISH <b>San Juan</b>	13. STATE <b>Utah</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	<del>SHOOT OR ACIDIZING</del> <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On October 15, 1964 acidized water injection well with 1000 gallons regular acid, 200 gallons Jel X-830 Block, and 2,000 gallons 15% regular acid. Resumed water injection.

Previous Injection Rate from Greater Aneth Field - Paradox formation, Desert Creek Zone:  
Injected 224 BW in 24 hours at 2450#.

Injection after treatment from Greater Aneth Field - Paradox formation, Desert Creek Zone:  
Injected 288 BW in 24 hours at 2200#.

18. I hereby certify that the foregoing is true and correct

SIGNED C. M. Boles TITLE Area Superintendent DATE October 22, 1964

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Katherford Unit

9. WELL NO.

29443

10. FIELD AND POOL, OR WILDCAT

Greater Aneth Field

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

29-41S-24E, S16M

12. COUNTY ~~MOOSE~~ 13. STATE

San Juan

Utah

1.

OIL WELL ☐ GAS WELL ☐ OTHER

Water Injection Well

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

Drawer 1150, Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1980' FSL; 660' FEL, Sec. 29-41S-24E, SE/4

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4877' ground

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☒  
☐  
☐

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

☐  
☐  
☐  
☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

☐  
☐  
☐

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

☐  
☐  
☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Acidize water injection well with 9000 gallons of 28% in 3 stages and return to injection.

Previous Injection Rate: 291 BWPD at 2535# during August 1968.

18. I hereby certify that the foregoing is true and correct

SIGNED

C. M. Boles

TITLE Dist. Supt.

DATE 9-11-68

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Orig. & 2 cc: USGS, Box 959, Farmington, N.M.

2 cc: Utah O&GCC, Salt Lake City, Utah

1 cc: B'ville

1 cc: Denver

1 cc: File

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Water Injection Well</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-603-407</b>
2. NAME OF OPERATOR <b>Phillips Petroleum Co.</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>
3. ADDRESS OF OPERATOR <b>Drawer 1190, Cortez, Colorado 81321</b>		7. UNIT AGREEMENT NAME <b>SW-1-4192</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1980' FSL; 660' FSL Sec. 29-413-24E, SE/4</b>		8. FARM OR LEASE NAME <b>Rutherford Unit</b>
14. PERMIT NO.		9. WELL NO. <b>2943</b>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4577' ground</b>		10. FIELD AND POOL, OR WILDCAT <b>Greater Anoth Field</b>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>29-413-24E S10W</b>
		12. COUNTY OR <del>STATE</del> <b>San Juan</b>
		13. STATE <b>Utah</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On 10-2-68 acidized Desert Creek Zone I and II perforations 5613-45, 5650-56, 5664-59, 5723-28 and 5737-42' through 2-7/8" steel tubing with Marlex liner with 9000 gallons 28% acid in 3 equal stages with 1000 gallons salt plug between each stage. Hooked back up and resumed injection.

Previous Injection Rate: 293 bwpd at 2575#.

Present Injection Rate: 400 bwpd at 2475#.

18. I hereby certify that the foregoing is true and correct

SIGNED *W. M. Jones* TITLE District Superintendent DATE 11-25-68

(This space for Federal or State office use)

APPROVED BY *W. M. Jones* TITLE District Superintendent DATE 11-25-68

2 cc: Utah OAGCC, SIC  
1 cc: B'ville  
1 cc: Denver  
1 cc: Superior, Cortez 1 cc: File

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☐ well ☐ other Water injection well
2. NAME OF OPERATOR  
Phillips Petroleum Company
3. ADDRESS OF OPERATOR  
P. O. Box 2920, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1980' FSL and 660' FEL, NESE  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Squeeze Zone II</u>			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Squeeze Zone II perfs. (5723' - 42' O. A.) and acidize Zone I perfs. (5613' - 89' O. A.) w/9,000 gals. RAS-1. Return to injection.

**APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING**

DATE: 4-23-81

BY: M. S. Minder

Confirming verbal approval Richard Bell to Harold Stoner 4/3/81

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED D. F. Fisher TITLE Oper. Superintendent DATE 4/3/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

3-U.S.G.S., Farmington, New Mexico

2-Utah O & G Comm., Salt Lake City, Utah

1-Superior Oil, The Woodlands, TX

1-File

\*See Instructions on Reverse Side

5. LEASE  
14-20-603-407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo
7. UNIT AGREEMENT NAME  
SW-I-4192
8. FARM OR LEASE NAME  
Ratherford Unit
9. WELL NO.  
29W43
10. FIELD OR WILDCAT NAME  
Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 29-41S-24E
12. COUNTY OR PARISH San Juan 13. STATE Utah
14. API NO.  
43-037-16434
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4871' RKB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

APR 10 1981

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☐ well other ☒ **Water Injection**
2. NAME OF OPERATOR  
**Phillips Petroleum Company**
3. ADDRESS OF OPERATOR  
**P. O. Box 2920, Casper, Wyoming 82602**
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: **1980' FSL & 660' FEL, NE SE**  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- | REQUEST FOR APPROVAL TO: |                          | SUBSEQUENT REPORT OF: |                                     |
|--------------------------|--------------------------|-----------------------|-------------------------------------|
| TEST WATER SHUT-OFF      | <input type="checkbox"/> |                       | <input type="checkbox"/>            |
| FRACTURE TREAT           | <input type="checkbox"/> |                       | <input type="checkbox"/>            |
| SHOOT OR ACIDIZE         | <input type="checkbox"/> |                       | <input type="checkbox"/>            |
| REPAIR WELL              | <input type="checkbox"/> |                       | <input checked="" type="checkbox"/> |
| PULL OR ALTER CASING     | <input type="checkbox"/> |                       | <input type="checkbox"/>            |
| MULTIPLE COMPLETE        | <input type="checkbox"/> |                       | <input type="checkbox"/>            |
| CHANGE ZONES             | <input type="checkbox"/> |                       | <input type="checkbox"/>            |
| ABANDON*                 | <input type="checkbox"/> |                       | <input type="checkbox"/>            |
- (other) **Attempted to Sqz Zone II**

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**August 15, 1981 through September 22, 1981**

**Attempted to squeeze Zone II, unsuccessful. Csg collapsed at 5671'.  
Cleaned out to 5702'. Acidized w/9000 gal 28% HCL. Resumed high  
pressure injection at 1:30 pm, 8/23/81 from Zone I and II Perfs 5613-  
5742'.**

**Injection Before - Shut-in 5/1/81, Injection Prior to SI - 203 BWPD at 2450 psi.**

**Injection After - Injecting 414 BWPD at 2525 psi.**

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *D. J. Fisher* TITLE **Area Manager** DATE **January 14, 1982**

**D. J. Fisher**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

- 3 - USGS, Farmington, NM  
2 - Utah O&G CC, Salt Lake City, UT  
1 - Superior Oil Co., The Woodlands, TX  
1 - File

\*See Instructions on Reverse Side

5. LEASE  
**14-20-603-407**
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo**
7. UNIT AGREEMENT NAME  
**SW-I-4192**
8. FARM OR LEASE NAME  
**Rutherford Unit**
9. WELL NO.  
**29W43**
10. FIELD OR WILDCAT NAME  
**Greater Aneth**
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 29-T41S-R24E**
12. COUNTY OR PARISH  
**San Juan**
13. STATE  
**Utah**
14. API NO.  
**43-037-16434**
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
**4871' RKB**

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING  
ROOM 4241 STATE OFFICE BUILDING  
SALT LAKE CITY, UTAH 84114  
(801) 533-5771  
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1  
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF  
PHILLIPS PETROLEUM COMPANY

ADDRESS P.O. BOX 2920  
CASPER, WYOMING ZIP 82602  
INDIVIDUAL PARTNERSHIP X CORPORATION  
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR  
INJECT FLUID INTO THE 29W43 WELL  
SEC. 29 TWP. 41S RANGE 24E  
SAN JUAN COUNTY, UTAH

CAUSE NO. C-3(B)

ENHANCED RECOVERY INJ. WELL	<input checked="" type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE I-4)	<input checked="" type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Ratherford Unit</u>	Well No. <u>29W43</u>	Field <u>Greater Aneth</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>29W43</u> Sec. <u>29</u> Twp. <u>41S</u> Rge. <u>24E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>5-83</u>	
Depth-Base Lowest Known <u>Wingate</u> Fresh Water Within 1/2 Mile <u>1550'</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What <u>Oil &amp; Gas</u>
Location of Injection Source(s) <u>Desert Creek Paradox I &amp; II</u> <u>San Juan River</u>		Geologic Name(s) and Depth of Source(s) <u>Desert Creek (5567')</u> <u>San Juan River (Surface)</u>	
Geologic Name of Injection Zone <u>Desert Creek I &amp; II</u>		Depth of Injection Interval <u>5613</u> to <u>5742</u>	
a. Top of the Perforated Interval: <u>5613</u>	b. Base of Fresh Water: <u>1550'</u>	c. Intervening Thickness (a minus b) <u>4063</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO <u>See Attachment #4</u>			
Lithology of Intervening Zones <u>See Attachment #1</u>			
Injection Rates and Pressures Maximum <u>217</u> (12-82) B/D <u>2450</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			
<u>Navajo Tribe, Minerals Dept., P.O. Box 146, Window Rock, AZ 86515</u>			
<u>Superior Oil, P.O. Box 4530, The Woodlands, TX 77380</u>			
<u>Texaco Inc., P.O. Box 2100, Denver, CO 80201</u>			
<u>Southland Royalty, 1000 Fort Worth Club Tower, Fort Worth, TX 76102</u>			

State of Wyoming

PHILLIPS PETROLEUM COMPANY

County of Natrona

Applicant

Before me, the undersigned authority, on this day personally appeared A. E. Stuart  
known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on  
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated  
therein, and that said report is true and correct.

Suscribed and sworn to before me this 21st day of Sept, 19 83

SEAL

My commission expires

DONALD L. HUDSON - Notary Public

County of Natrona

State of Wyoming

My Commission Expires Nov. 3, 1986

Notary Public in and for Natrona Co., Wyoming



## INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

## CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8	160	200	Surface	circulated
Intermediate none					
Production	5-1/2	5805	350	4384	CALCULATED
Tubing	2-3/8	5451	Baker LOC Set Pkr	Name - Type - Depth of Tubing Packer	@ 5451
PB					
Total Depth 5789	Geologic Name - Inj. Zone Desert Creek I & II		Depth - Top of Inj. Interval 5613		Depth - Base of Inj. Interval 5742

(To be filed within 30 days after drilling is completed)

14-26-603- 407

COMPLETION & TEST DATA BY PRODUCING FORMATION

DEPARTMENT OF NATURAL RESOURCES AND ENERGY  
API NO. 43-037- 16434

LEASE NO.

DIVISION OF OIL, GAS, AND MINING  
Room 4241 State Office Building  
Salt Lake City, Utah 84114

COUNTY San Juan SEC. 29 TWP. 41S RGE. 24E

COMPANY OPERATING Phillips Petroleum Company

OFFICE ADDRESS P.O. Box 2920

TOWN Casper STATE ZIP Wyoming 82602

FARM NAME \_\_\_\_\_ WELL NO. 29W 43

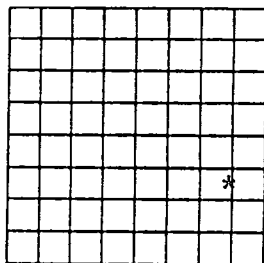
DRILLING STARTED 3-26 1959 DRILLING FINISHED 4-19 19 59

DATE OF FIRST PRODUCTION 4-20-59 COMPLETED 4-20-59

WELL LOCATED NE 1/4 SE 1/4

1980 FT. FROM SL OF 1/4 SEC. & 660 FT. FROM W 1/4 OF 1/4 SEC.

ELEVATION 4871 GROUND 4861



Locate Well Correctly  
and Outline Lease

RKB

TYPE COMPLETION

Single Zone \_\_\_\_\_

Multiple Zone X \_\_\_\_\_

Comingled \_\_\_\_\_

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Desert Creek I	5613	5689			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13-3/8	48	H-40	149	no test	200		surface
5-1/2	15.5	J-55	391				
5-1/2	14	J-55	5447	no test	350	1062	4384

PBTD 5789

PACKERS SET Baker Loc - Set Pkr @ 5451

DEPTH \_\_\_\_\_

TOTAL DEPTH 5805

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

FORMATION	Desert Creek <u>I+II</u>	
SPACING & SPACING ORDER NO.	40 acre	
	Cause <u>#C-3(B)</u>	
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery	
PERFORATED	5613-45	5737-42
INTERVALS	5650-56	
	5666 - 89	
	5723 - 28	
ACIDIZED?	8-23-81 9000 Gal 28%	
	HCl Acid	
FRACTURE TREATED?	No	

INITIAL TEST DATA

(Perf. Desert Creek II)  
Converted to Injector 5-3-63

Date	5-3-63		
Oil, bbl./day	--		
Oil Gravity	--		
Gas, Cu. Ft./day	--	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	--		
Water-Bbl./day	871		
Pumping or Flowing	flowing		
CHOKE SIZE	--		
FLOW TUBING PRESSURE	vacuum		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.  
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone 307-237-3791

A.E. Stuart, Area Manager

Name and title of representative of company

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_ 1983

Casper

WELL: 29W43  
LOCATION: NESE Sec 29-T41S-R24E

FIELD: GREATER ANCH

RESERVOIR: Desert Creek I+II

COMPLETION: 5.3.63

PRESENT STATUS: W.I.

RKB 4871'

GL 4861'

SURFACE CASING: 13 3/8" 48#  
H-40

PRODUCTION CASING: 5 1/2" 15.5#  
J-55 391', 14# J-55 5447'

PERFORATIONS:

5613-45

5650-56

5666-89

5723-28

5737-42

PACKER: Paker Loc-set  
Pkr @ 5451'

Tubing: 2 3/8" @ 5451'

5451'

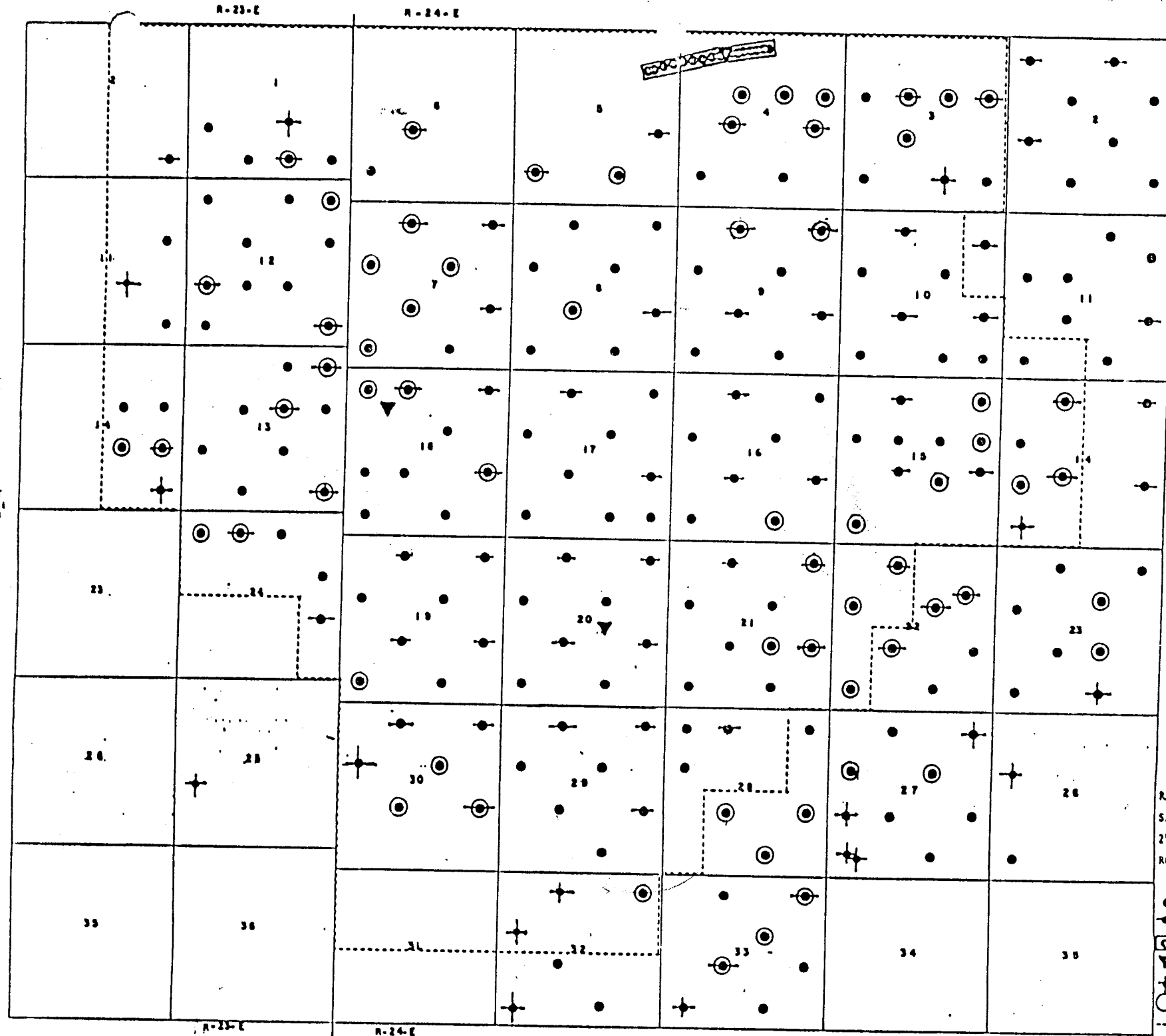
5613'- 5742'

PBTD: 5789'

OTD: 5805'

5805'

Phillips Petroleum Company



# CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Phillips Well No. Rutherford Unit 29w43  
 County: San Juan T 41S R 24E Sec. 29 API# 43-037-16434  
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	YES	NO
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Source	<u>Desert Creek</u>	

Analysis of Injection Fluid	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>85605</u>
Analysis of Water in Formation to be injected into	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	TDS <u>103633</u>

Known USDW in area	<u>Wingate</u>	Depth <u>1550</u>
Number of wells in area of review	<u>6</u>	Prd. <u>5</u> P&A <u>0</u>
	Water <u>0</u>	Inj. <u>1</u>

Aquifer Exemption	Yes <input type="checkbox"/> NA <input checked="" type="checkbox"/>
-------------------	---

Mechanical Integrity Test	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---------------------------	---

Date	<input type="text"/>	Type	<input type="text"/>
------	----------------------	------	----------------------

Comments: TOC 4384

Reviewed by: [Signature]

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on re-  
verse side)

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for each proposal.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection Well		3. LEASE DESIGNATION AND SERIAL NO. 14-20-603-407	
2. NAME OF OPERATOR Phillips Oil Company		7. UNIT ASSIGNMENT NAME SW-I-4192	
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, Wyoming 82602		8. FARM OR LEASE NAME Ratherford Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  1980' FSL, 660' FEL (NE SE)		9. WELL NO. 29W43	
14. PERMIT NO. 43-037-16434		10. FIELD AND POOL, OR WILDCAT Greater Aneth	
15. ELEVATIONS (Show whether SF, ST, OR, etc.) 4871' RKB		11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec. 29-T41S-R24E	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input checked="" type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	Plug back to Zone I		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

It is proposed to convert Ratherford Unit #29W43 from Zone I & II to Zone I water injection. After plugging back to Zone I, the well will be acidized with 9000 gallons 28% HCL and returned to injection.

A 10' x 8' x 6' fenced pit will be constructed on location in a previously disturbed area. Upon completion of the workover, the pit will be dried and recovered.

- 5- BLM, Farmington, NM
- 2- Utah O&GCC, SLC, Utah
- 1- P. J. Adamson
- 1- B. Conner, 318-B-TRW
- 1- J. R. Weichbrodt
- 1- C. M. Anderson
- 1- B. J. Murphy
- 1- File RC

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager DATE May 28, 1985

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE VIC Manager DATE 4/3/85

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

# Mobil Oil Corporation

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED  
MAY 16 1986

Attn: R. J. Firth  
Associate Director

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd  
CNE8661

R. D. Baker  
Environmental Regulatory Manager

UTAH DIVISION OF OIL, GAS AND MINING  
CASING-BRADENHEAD TEST

OPERATOR: Phillips Petroleum Company  
FIELD: Greater Aneth LEASE: Ratherford Unit  
WELL # 29 W 43 SEC. 29 TOWNSHIP 41S RANGE 24E  
STATE (FED.) FEE DEPTH 5789 TYPE WELL INJW MAX. INJ. PRESS. 2450

TEST DATE 6/17/84

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13<sup>3</sup>/<sub>8</sub></u>	<u>160</u>	<u>200sx</u>		<u>SI</u>	
<u>INTERMEDIATE</u>	<u>NONE</u>					
<u>PRODUCTION</u>	<u>5<sup>1</sup>/<sub>2</sub></u>	<u>5805</u>	<u>350</u>			
<u>TUBING</u>	<u>2<sup>3</sup>/<sub>8</sub></u>	<u>5451</u>				
<u>Baker Loc-Set Pkr at 5451</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Expires August 31, 1985

3. LEASE DESIGNATION AND SERIAL NO.

14-20-603-407

4. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT ASSIGNMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

29W43

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., N., OR S.E. AND  
SUBSET OR AREA

Sec. 29-T41S-R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Water Injector

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

1980' FSL, 660' FEL NE SE

API# 43-037-16434

14. PERMIT NO.

15. ELEVATIONS (Show whether SF, ST, GR, etc.)

4871' RKB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) Convert to water injection

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Nov. 15, 1986 through Nov. 28, 1986

MI & RU 11/16/86. COOH w/tbg. Clean out hole to 5733'. Swage tight spot. Test for comm between Zones I & II with 200 sx Class B cmt. Well took all the cement. Sqz again with 60 sx Class B cmt. WOC. Drill cement from 5434'-5700'. Test sqz, OK. Perf Zone I 5613'-5689' OA. Acidized Zone I with 4500 gals 28% HCL. Swabbed back load. Ran injection tbg and packer. RD 11/28/86. HU to injection 12/1/86.

Production Before shut down  
Injection After 519 BWPd @ 1850 psi

RECEIVED

AUG 4 1987

DIVISION OF OIL  
GAS & MINING

4-BLM, Farmington, NM 1-Chieftain  
2-Utah O&G CC, SLC, UT 1-Mobil Oil  
1-M. Williams, B<sup>1</sup>Ville 1-Texaco, Inc.  
1-J. Landrum, Denver 1-Chevron USA  
1-J. Reno, Cortez 1-File RC

18. I hereby certify that the foregoing is true and correct

SIGNED

D. C. Gill

TITLE Area Manager

DATE

7/27/87

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

# DOWNHOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 29W43

Location NE SE Sec. 29

RKB Elev. 4871'

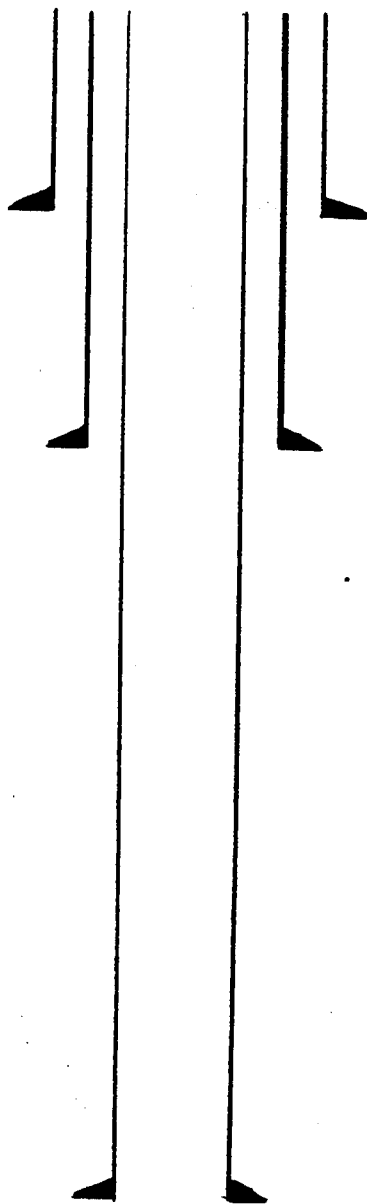
T41S-R24E

GL Elev. 4861'

Well Drd 4/19/59

RKB Above GL' 10'

Well converted  
to injector 5/3/63



CONDUCTOR CSG. @

SURFACE CSG. 13 3/8 @ 160'

TOC 3,932' calc.

Tubing 2 3/8 @ 5512' Rice Duoline

PACKER BAKER LOC-SET PKR.

@ 5522

PERFS	<u>5613 - 45</u>	<u>_____</u>	<u>_____</u>
	<u>5650 - 56</u>	<u>_____</u>	<u>_____</u>
	<u>5666 - 89</u>	<u>_____</u>	<u>_____</u>
	<u>_____</u>	<u>_____</u>	<u>_____</u>

PBTD 5,800'

PRODUCTION CSG. 5 1/2 @ 5805'  
J-55, 14#, 15.5\*

All PERFS ZONE I UNLESS NOTED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER WATER INJECTION & WATER SUPPLY WELLS		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR PHILLIPS PETROLEUM COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME SW-I-4192
3. ADDRESS OF OPERATOR 152 N. DURBIN, 2ND FLOOR, CASPER, WYOMING 82601		7. UNIT AGREEMENT NAME RATHERFORD UNIT #7960041920
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>SEE ATTACHED</u>		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO. VARIOUS (see attached)
15. ELEVATIONS (Show whether DF, BT, CM, etc.) OIL, GAS & MINING		10. FIELD AND POOL, OR WILDCAT GREATER ANETH
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sections 1 thru 30 T41S - R23E & 24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <u>CHANGE OF OWNERSHIP</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This is to advise all Water Injection and Water Supply Wells on the Ratherford Unit, listed on the attached sheet, were sold to Phillips Petroleum Company, effective August 1, 1985.

(former Operator - Phillips Oil Company)

3 - BLM, Farmington, NM  
2 - Utah O&G CC, SLC, UT  
1 - File

18. I hereby certify that the foregoing is true and correct

SIGNED S. H. Oden

TITLE District Superintendent

DATE March 17, 1989

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Water Injection		6. LEASE DESIGNATION AND SERIAL NO. 14-20-603-407
2. NAME OF OPERATOR Phillips Petroleum Company		7. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Box 1150, Cortez, Colorado 81321		8. UNIT AGREEMENT NAME Ratherford Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL & 660' FEL, NE SE		9. FARM OR LEASE NAME
14. PERMIT NO. API #43-037-16434		10. WELL NO. 29W43
15. ELEVATIONS (Show whether by, etc., etc.) 4871' RKB		11. FIELD AND POOL, OR WILDCAT Greater Aneth
		12. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29-T41S-R24E
		13. COUNTY OR PARISH San Juan
		14. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF  
FRACTURE TREAT  
SHOOT OR ACIDIZE  
REPAIR WELL  
(Other)

PLUG OR ALTER CASING  
MULTIPLE COMPLETION  
ABANDON\*  
CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF  
FRACTURE TREATMENT  
SHOOTING OR ACIDIZING  
(Other) UIC Test

REPAIRING WELL  
ALTERING CASING  
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

June 8, 1989 - June 21, 1989

RU Well Service Unit 6/8/89. ND wellhead, NU BOP. COOH w/tbg. Rel pkr. GIH w/blade bit, csg brush, & scraper. RU power swivel & drld & cleaned out well to PBTD 5710'. Set 5-1/2" R-3 pkr at 5541'. Tested lines to 3500 psi. Acidized w/2660 gal 28% acid w/1000 gal W-F-40/J-66, displaced w/32 bbls fresh wtr. ISIP 1580 psi, 15 min SIP 1400 psi. Rel pkr. Ran csg inspection log from 5670' - 150'. GIH w/2-3/8" Rice Duolined tbg. Set pkr at 5492' and ran UIC test to 1000 psi for 30 min. Lost 75 psi. Reset pkr at 5443' and ran UIC test, 1050 psi for 30 min. No bleed-off. Put well on inj. Reset pkr at 5378'. Press annulus to 1000 psi for 30 min, lost 250 psi. COOH w/170 jts 2-3/8" tbg & Baker Lok-set pkr. Inspected pkr, OK. GIH w/5-1/2" Baker Lok-set pkr w/test plug & 168 jts tbg. Reset pkr at 5322'. ND BOP, NU Well-head. Ran UIC test to 1000 psi for 30 min, held OK. Returned well to injection on 6/21/89.

Inj Rate prior to workover: 140 BWP  
2425 psi  
Inj Rate after workover: 240 BWP  
2425 psi

5-BLM, Farmington  
2-Utah O&G CC  
1-N. Anstine,  
1-S.H. Oden  
1-Chieftain  
1-Mobil Oil  
1-Texaco, Inc.  
1-Chevron, USA  
1-Cortez Office - RC  
1-Houston Office

18. I hereby certify that the foregoing is true and correct

SIGNED S. H. Oden

TITLE District Superintendent

DATE July 12, 1989

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

Page 1 of 10

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL  
PHILLIPS PETROLEUM COMPANY  
5525 HWY 64 NBU 3004  
FARMINGTON NM 87401

RECEIVED

AUG 16 1993

ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF  
OIL, GAS & MININGAMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23								
4303713754	06280	41S 24E 21	DSCR	POW	29	1374	883	58
#3-44								
4303715031	06280	41S 24E 3	DSCR	POW	30	111	94	2905
#3-14								
4303715124	06280	41S 24E 3	DSCR	POW	30	67	23	302
#9-12								
4303715126	06280	41S 24E 9	DSCR	POW	30	112	654	17363
#9-14								
4303715127	06280	41S 24E 9	DSCR	POW	30	201	315	423
#28-12								
4303715336	06280	41S 24E 28	PRDX	POW	29	112	47	2428
#29-12								
4303715337	06280	41S 24E 29	PRDX	POW	29	56	0	672
#29-32								
4303715339	06280	41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34								
4303715340	06280	41S 24E 29	DSCR	POW	29	757	48	0
#30-32								
4303715342	06280	41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12								
4303715620	06280	41S 24E 3	DSCR	POW	30	268	11	363
#9-34								
4303715711	06280	41S 24E 9	DSCR	POW	30	45	46	9800
#10-12								
4303715712	06280	41S 24E 10	DSCR	POW	30	45	23	1088
TOTALS						5138	3480	41370

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the  
Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box  
633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 8/11/93

Name and Signature: PAT KONKEL

Pat Konkell

Telephone Number: 505 599-3452

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION & SERIAL NO.  6. IF INDIAN ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL	
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME RATHERFORD UNIT	
2. NAME OF OPERATOR MOBIL OIL CORPORATION		8. FARM OR LEASE NAME	
3. ADDRESS OF OPERATOR P. O. BOX 633 MIDLAND, TX 79702		9. WELL NO.	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT GREATER ANETH	
14. API NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		12. COUNTY SAN JUAN	
13. STATE UTAH		16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>		SUBSEQUENT REPORT OF: WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) <u>CHANGE OF OPERATOR</u> (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/> DATE OF COMPLETION _____	
APPROX. DATE WORK WILL START _____		17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)	

\* Must be accompanied by a cement verification report.

AS OF JULY 1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT.  
 ATTACHED ARE THE INDIVIDUAL WELLS.

18. I hereby certify that the foregoing is true and correct

SIGNED Shirley Todd TITLE ENV. & REG TECHNICIAN DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

OCT 25 1993

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: _____	
Field or Unit name: <u>RATHERFORD UNIT</u>	API no. _____
Well location: QQ _____ section _____ township _____ range _____ county _____	
Effective Date of Transfer: <u>July 1, 1993</u>	
<b>CURRENT OPERATOR</b>	
Transfer approved by:	
Name <u>Ed Hasely</u>	Company <u>Phillips Petroleum Company</u>
Signature <u>Ed Hasely</u>	Address <u>5525 HWY. 64</u>
Title <u>Environmental Engineer</u>	<u>Farmington, NM 87401</u>
Date <u>October 22, 1993</u>	Phone ( <u>505</u> ) <u>599-3460</u>
Comments:	
<b>NEW OPERATOR</b>	
Transfer approved by:	
Name <u>Shirley Todd</u>	Company <u>Mobil Exploration &amp; Producing North America</u>
Signature <u>Shirley Todd</u>	Address <u>P O Box 633</u>
Title <u>Env. &amp; Reg. Technician</u>	<u>Midland, TX 79702</u>
Date <u>October 7, 1993</u>	Phone ( <u>915</u> ) <u>688-2585</u>
Comments:	
(State use only)	
Transfer approved by <u>[Signature]</u>	Title <u>UIC Manager</u>
Approval Date <u>10-27-93</u>	

Lisha Cordova (801) 538-5340

BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF UTAH

APPLICATION OF PHILLIPS PETROLEUM	)	
COMPANY FOR THE APPROVAL OF THE	)	
UNIT OPERATIONS AND PRESSURE MAIN-	)	CAUSE NO. 63
TENANCE PROGRAM FOR THE RATHERFORD	)	
UNIT IN THE GREATER ANETH AREA,	)	
SAN JUAN COUNTY, UTAH	)	

ORDER

This Cause came on for hearing before the Oil and Gas Conservation Commission of the State of Utah at 10 o'clock a. m. on Wednesday, September 13, 1961, in the Crystal Room, Hotel Newhouse, Fourth South at Main Street, Salt Lake City, Utah, pursuant to notice duly and regularly given. The entire Commission, except Walter G. Mann, was present, Edward W. Clyde presiding. Appearances were made as follows: Cecil C. Hamilton, attorney, on behalf of Phillips Petroleum Company; Clair M. Senior, attorney, on behalf of Texaco, Inc.; Gordon Mayberry, attorney, on behalf of Continental Oil Company; R. R. Robison on behalf of Shell Oil Company. Others present included Carl Trawick, on behalf of United States Geological Survey; and J. R. White, on behalf of Texaco, Inc.

Evidence in support of the application was introduced by Phillips Petroleum Company, the applicant and Unit Operator of the Ratherford Unit, which embraces as the unit area the following described land in San Juan County, State of Utah, to wit:

TOWNSHIP 41 SOUTH, RANGE 23 EAST, SE1/4

Section 1:	All	Sections 12 and 13:	All
Section 2:	E/2	Section 14:	E/2
Section 11:	E/2	Section 24:	All

TOWNSHIP 41 SOUTH, RANGE 24 EAST, SE1/4

Section 3:	SW/4	Sections 15	
Section 4:	S/2	through 21:	All
Sections 5 through 9:	All	Section 22:	NE/4 and
Section 10:	S/2 and NE/4		E/2 of the
	and W/2 of NE/4		SW/4
Section 11:	S/2 of SW/4	Section 23:	NE/4 and
			E/2 of NE/4
Section 14:	W/2		and W/2 of SW/4
		Section 29 and 30:	All
		Section 31:	W/2
		Section 32:	W/2

R. R. Robison on behalf of Shell Oil Company stated that (as contemplated by paragraph No. 5 of the Commission's order of February 24, 1959, in Cause No. 17 authorizing the drilling of certain test wells) Shell would submit to the Commission, as arbiter, the question as between Shell and Superior Oil Company



of the monetary value, if any, to be attributed to three test wells drilled within the Ratherford Unit area pursuant to said order of February 24, 1959.

No objection to the granting of the application was filed or expressed. The Shell Oil Company, Texaco, Inc. and Continental Oil Company expressed their support of the application of Phillips Petroleum Company.

#### FINDINGS OF FACT

The Commission finds that:

1. The unitized operation of the Ratherford Unit Area will enable pressure maintenance operations to be initiated and permit such Area to be operated in a manner which will prevent waste, protect correlative rights and result in greater ultimate recovery of oil and gas.

2. The Ratherford Unit Agreement has been approved by the various signatory parties as fair, reasonable and acceptable.

3. The water injection pressure maintenance program proposed by the applicant appears to be proper and designed to result in the greatest economic recovery of oil and gas to the end that all concerned, including the general public, may realize and enjoy the greatest good from the oil and gas resources of the unitized lands.

#### ORDER

THEREFORE, IT IS ORDERED BY THE COMMISSION, and subject to its continuing jurisdiction, that:

1. Unit operation of the Ratherford Unit Area under the Ratherford Unit Agreement is approved.


2. The plan and program of water injection pressure maintenance operations proposed by applicant in its application filed herein should be and the same is hereby approved and the unit operator is authorized to proceed with and under such plan and program as soon as the Ratherford Unit Agreement becomes effective and operative.

3. If, at any time or from time to time, it appears necessary or desirable to the unit operator to alter or modify the hereby approved plan of pressure maintenance, any such alteration or modification shall be submitted for

and shall be subject to approval by the Commission or its delegated representative, which approval may be given without notice or hearing, unless otherwise ordered or directed by the Commission.

Dated this 13th day of September, 1961.

THE OIL AND GAS CONSERVATION  
COMMISSION OF THE STATE OF UTAH

  
Edward W. Clyde, Commissioner, presiding

  
C. R. Henderson, Chairman

  
M. V. Hatch, Commissioner

  
C. S. Thomson, Commissioner

\_\_\_\_\_  
Walter G. Mann, Commissioner

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

Page 1 of 1

## MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

*L.B. Sheffield*~~BRIAN BERRY~~~~M.E.P.N.A. MOBIL~~~~POB 219031 1807A RENTW~~ *P.O. DRAWER 6*~~DALLAS TX 75221-9031~~ *CORTEZ, CO. 81321*UTAH ACCOUNT NUMBER: N7370REPORT PERIOD (MONTH/YEAR): 7 / 93AMENDED REPORT ☐ (Highlight Changes)*\*931006 updated.  
Jic*

ENTITY NUMBER	PRODUCT	GRAVITY	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
		BTU			TRANSPORTED	USED ON SITE	FLARED/VENTED	OTHER	
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
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	GAS								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

COMMENTS: *PLEASE NOTE ADDRESS CHANGE. MOBIL ~~ASO~~ PRODUCTION REPORTS  
Will be compiled and sent from the Cortez, Co. office  
IN THE FUTURE.*

I hereby certify that this report is true and complete to the best of my knowledge.

Name and Signature:

*Lwell B Sheffield*

Date:

*9/5/93*

Telephone Number:

*303 565 2212  
244 58 2528*

Sept 29, 1993

TO: Lisha Cordova - Utah Mining  
Oil & Gas

FROM: Janice Easley  
BLM Farmington, NM  
505 599-6355

Here is copy of Rafterford Unit  
Successor Operator,

4 pages including this one.

2.6. Nottingham Unit (GC)

RECEIVED  
BLM

27 APR:44

070 FRANKLIN, NM

ARES/543

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Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

Alfreda

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.  
TNN, Director, Minerals Department w/enc.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

RECEIVED  
BLM

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit,

AREA OFFICE: Window Rock, Arizona  
LEASE NO: Attached hereto as Exhibit "A"

070 FARMINGTON, NM

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702  
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. [Signature]  
Attorney-in-Fact

Mobil Exploration and Producing  
North America Inc.

June 11, 1993

By: B. D. Martiny  
Attorney-in-Fact B.D. MARTINY

[Signature] ACTING AREA DIRECTOR  
APPROVED BY TITLE DATE  
7/9/93

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

## EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

## EXHIBIT "C"

Revised as of September 29, 1992  
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

<u>Tract Number</u>	<u>Description of Land</u>	<u>Serial Number and Effective Date of Lease</u>	<u>Tract Percentage Participation</u>
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26, 1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482
100% Indian Lands			
TOTAL			12,909.74
			100.0000000

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File \_\_\_\_\_

☐ Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

☒ Other  
OPERATOR CHANGE

(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
(API No.) \_\_\_\_\_

1. Date of Phone Call: 10-6-93 : Time: 9:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☒  
Talked to:

Name GLEN COX (Initiated Call ☐ - Phone No. (915 )688-2114

of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".  
(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL  
OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation: \_\_\_\_\_

MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS  
PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW  
BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

\*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATED BY MEPNA, CURRENTLY  
REPORTED OUT OF DALLAS (MCELMO CREEK).



Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1	VLC/17-S4
2	DPG/58-RHE
3	VLC
4	RJEV
5	DPG
6	PL

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator) M E P N A  
 (address) PO DRAWER G  
CORTEZ, CO 81321  
GLEN COX (915)688-2114  
 phone (303)565-2212  
 account no. N7370

FROM (former operator) PHILLIPS PETROLEUM COMPANY  
 (address) 5525 HWY 64 NBU 3004  
FARMINGTON, NM 87401  
PAT KONKEL  
 phone (505)599-3452  
 account no. N0772(A)

Well(s) (attach additional page if needed):

**\*RATHERFORD UNIT (NAVAJO)**

Name: <b>**SEE ATTACHED**</b>	API: <u>43037-16434</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Rec'd 9-14-93)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (Wiw's 10-26-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.  
N/A
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date                      19  . If yes, division response was made by letter dated                      19  .

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.  
DCS  
H-10-93
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

### FILMING

1. All attachments to this form have been microfilmed. Date: 11-17 1993.

### FILING

- Yes 1. Copies of all attachments to this form have been filed in each well file.
- Yes 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

931006 BIA/Btm Approved 7-9-93.

✓ 19W-21	43-037-15741	14-20-603-353	SEC. 19, T41S, R24E	NE/NW 660' FNL 1860' FWL
✓ 19-22	43-037-31046	14-20-603-353	SEC. 19, T41S, R24E	SE/NW 1840' FNL; 1980' FWL
✓ 19W-23	43-037-15742	14-20-603-353	SEC. 19, T41S, R24E	NE/SW 2080' FSL; 1860' FWL
✓ 19-31	43-037-31047	14-20-603-353	SEC. 19, T41S, R24E	NW/NE 510' FNL; 1980' FEL
✓ 19-32	43-037-15743	14-20-603-353	SEC. 19, T41S, R24E	SW/NE 1980' FNL; 1980' FEL
✓ 19-33	43-037-31048	14-20-603-353	SEC. 19, T41S, R24E	NW/SE 1980' FSL; 1980' FEL
✓ 19-34	43-037-15744	14-20-603-353	SEC. 19, T41S, R24E	SW/SE 660' FSL; 1980' FEL
✓ 19W-41	43-037-15745	14-20-603-353	SEC. 19, T41S, R24E	NE/NE 660' FNL; 660' FEL
✓ 19-42	43-037-30916	14-20-603-353	SEC. 19, T41S, R24E	SE/NE 1880' FNL, 660' FEL
✓ 19W-43	43-037-16420	14-20-603-353	SEC. 19, T41S, R24E	NE/SE 1980' FSL; 760' FEL
✓ 19-44	43-037-31081	14-20-603-353	SEC. 19, T41S, R24E	SE/SE 660' FSL; 660' FEL
✓ 19-97	43-037-31596	14-20-603-353	SEC. 19, T41S, R24E	2562' FNL, 30' FEL
✓ 20-11	43-037-31049	14-20-603-353	SEC. 20, T41S, R24E	NW/NW 500' FNL; 660' FWL
✓ 20-12	43-037-15746	14-20-603-353	SEC. 20, T41S, R24E	1980' FNL, 660' FWL
✓ 20-13	43-037-30917	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2140' FSL, 500' FWL
✓ 20-14	43-037-15747	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 660' FWL
✓ 20W-21	43-037-16423	14-20-603-353	SEC. 20, T41S, R24E	660' FNL; 1880' FWL
✓ 20-22	43-037-30930	14-20-603-353	SEC. 20, T41S, R24E	SE/NW 2020' FNL; 2090' FWL
✓ 20W-23	43-037-15748	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2080; 2120' FWL
✓ 20-24	43-037-30918	14-20-603-353	SEC. 20, T41S, R24E	SE/SW 820' FSL; 1820' FWL
✓ 20-31	43-037-31050	14-20-603-353	SEC. 20, T41S, R24E	NW/NE 660' FNL; 1880' FEL
✓ 20-32	43-037-15749	14-20-603-353	SEC. 20, T41S, R24E	SW/NE 1980' FNL, 1980' FEL
✓ 20-33	43-037-30931	14-20-603-353	SEC. 20, T41S, R24E	NW/SE 1910' FSL; 2140' FEL
✓ 20-34	43-037-15750	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 1850' FEL
✓ 20W-41	43-037-15751	14-20-603-353	SEC. 20, T41S, R24E	NE/NE 660' FNL; 660' FEL
✓ 20-42	43-037-31051	14-20-603-353	SEC. 20, T41S, R24E	SE/NE 1980' FNL; 660' FEL
✓ 20W-43	43-037-16424	14-20-603-353	SEC. 20, T41S, R24E	2070' FSL; 810' FEL
✓ 20-44	43-037-30915	14-20-603-353	SEC. 20, T41S, R24E	SE/SE 620' FSL; 760' FEL
✓ 20-66	43-037-31592	14-20-603-353	SEC. 20, T41S, R24E	SW/NW 1221' FWL; 1369' FNL
✓ 21-11	43-037-31052	14-20-603-355	SEC. 21, T41S, R24E	NW/NW 660' FNL; 660' FWL
✓ 21-12	43-037-15752	14-20-603-355	SEC. 21, T41S, R24E	2080' FNL; 660' FWL
✓ 21-13	43-037-30921	14-20-603-355	SEC. 21, T41S, R24E	NW/SW 2030' FSL; 515' FWL
✓ 21-14	43-037-15753	14-20-603-355	SEC. 21, T41S, R24E	SW/SW 660' FSL; 460' FWL
✓ 21W-21	43-037-16425	14-20-603-355	SEC. 21, T41S, R24E	NE/NW 660' FNL; 2030' FWL
✓ 21-32	43-037-15755	14-20-603-355	SEC. 21, T41S, R24E	SW/NE 1880' FNL; 1980' FEL
✓ 21-33	NA	14-20-603-355	SEC. 21, T41S, R24E	2000' FSL; 1860' FEL
✓ 21-34	43-037-15756	14-20-603-355	SEC. 21, T41S, R24E	SW/SE 660' FSL; 1980' FEL
✓ 21W-41	43-037-16426	14-20-603-355	SEC. 21, T41S, R24E	660' FNL; 810' FEL
✓ 21W-43	43-037-16427	14-20-603-355	SEC. 21, T41S, R24E	NE/NE 1980' FSL; 660' FEL
✓ 24-11	43-037-15861	14-20-603-247A	SEC. 24, T41S, R24E	510' FNL; 810' FWL
✓ 24W-21	43-037-16429	14-20-603-247	SEC. 24, T41S, R24E	4695' FSL; 3300' FEL
✓ 24W-43	43-037-16430	14-20-603-247	SEC. 24, T41S, R24E	2080' FSL; 660' FEL
✓ 24-31W	43-037-15862	14-20-603-247A	SEC. 24, T41S, R24E	NW/NE 560' FNL; 1830' FEL
✓ 24-32	43-037-31593	14-20-603-247A	SEC. 24, T41S, R24E	SW/NE 2121' FNL; 1846' FEL
✓ 24-41	43-037-31132	14-20-603-247A	SEC. 24, T41S, R24E	NE/NE 660' FNL; 710' FEL
✓ 24W-42	43-037-15863	14-20-603-247A	SEC. 24, T41S, R24E	660' FSL; 1980' FNL
✓ 28-11	43-037-30446	14-20-603-409	SEC. 28, T41S, R24E	NW/NW 520' FNL; 620' FWL
✓ 28-12	43-037-15336	14-20-603-409B	SEC. 28, T41S, R24E	SW/SE/NW 2121' FNL; 623' FWL
✓ 29-11	43-037-31053	14-20-603-407	SEC. 29, T41S, R24E	NW/NW 770' FNL; 585' FWL
✓ 29W-21	43-037-16432	14-20-603-407	SEC. 29, T41S, R24E	NE/NW 667' FNL; 2122' FWL
✓ 29-22	43-037-31082	14-20-603-407	SEC. 29, T41S, R24E	SE/NW 2130' FNL; 1370' FWL
✓ 29W-23	43-037-15338	14-20-603-407	SEC. 29, T41S, R24E	NE/SW 1846' FSL; 1832' FWL
✓ 29-31	43-037-30914	14-20-603-407	SEC. 29, T41S, R24E	NW/NE 700' FNL; 2140' FEL
✓ 29-32	43-037-15339	14-20-603-407	SEC. 29, T41S, R24E	1951' FNL; 1755' FEL
✓ 29-33	43-037-30932	14-20-603-407	SEC. 29, T41S, R24E	NW/SE 1860' FSL; 1820' FEL
✓ 29-34	43-037-15340	14-20-603-407	SEC. 29, T41S, R24E	817' FSL; 2096' FEL
✓ 29W-41	43-037-16433	14-20-603-407	SEC. 29, T41S, R24E	557' FNL; 591' FEL
✓ 29W-42	43-037-30937	14-20-603-407	SEC. 29, T41S, R24E	SE/NE 1850' FNL; 660' FEL
✓ 29W-43	43-037-16434	14-20-603-407	SEC. 29, T41S, R24E	NE/SE 1980' FSL; 660' FEL
✓ 30-21W	43-037-16435	14-20-603-407	SEC. 30, T41S, R24E	660' FNL; 1920' FWL
✓ 30-32	43-037-15342	14-20-603-407	SEC. 30, T41S, R24E	SW/NE 1975' FNL; 2010' FEL
✓ 30W-41	43-037-15343	14-20-603-407	SEC. 30, T41S, R24E	NE/NE 660' FNL; 660' FEL
✓ 9-34	NA 4303715711	NA 14206034043	NA SEC. 9, T. 41S, R. 24E	NA SW/SE 660' FSL 1980' FEL
✓ 12-43	43-307-31202	14-20-603-246	SEC. 12, T41S, R23E	2100' FSL; 660' FEL
✓ 12W31	43-037-15847	14-20-603-246	SEC. 12, T41S, R23E	661' FNL; 1981' FEL
✓ 13W24	43-037-15853	14-20-603-247	SEC. 13, T41S, R23E	SE/SW 660' FSL; 3300' FEL
✓ 15W23	43-037-16412	14-20-603-355	SEC. 15, T41S, R24E	2140' FSL; 1820' FWL
✓ 17-24	43-037-31044	14-20-603-353	SEC. 17, T41S, R24E	SE/SW 720' FSL; 1980' FWL
✓ 18-13	43-037-15734	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 1980' FSL; 500' FWL
✓ 18W32	43-037-15736	14-20-603-353	SEC. 18, T41S, R24E	SW/NE 2140' FNL; 1830' FEL
✓ 20-68	43-037-31591	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 1276' FWL; 1615' FSL
✓ 21-23	43-037-13754	14-20-603-355	SEC. 21, T41S, R24E	NE/SW 1740' FSL 1740' FWL
✓ 28W21	43-037-16431	14-20-603-409	SEC. 29, T41S, R24E	660' FNL; 2022' FWL

PAID

PAID

PAID  
PAID

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File \_\_\_\_\_  
 (Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
 (API No.) \_\_\_\_\_

☐ Suspense  
 (Return Date) \_\_\_\_\_  
 (To - Initials) \_\_\_\_\_

☒ Other  
 OPER NM CHG \_\_\_\_\_  
 \_\_\_\_\_

1. Date of Phone Call: 8-3-95 Time: \_\_\_\_\_

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)  
 Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. ( ) \_\_\_\_\_  
 of (Company/Organization) \_\_\_\_\_

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: \_\_\_\_\_

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING  
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT  
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

\*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing	
1- <u>VLC</u>	7- <u>PL</u>
2- <u>LWP</u>	8- <u>SJ</u>
3- <u>DTG</u>	9- <u>FILE</u>
4- <u>VLC</u>	
5- <u>RJF</u>	
6- <u>LWP</u>	

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) MOBIL EXPLOR & PROD  
 (address) C/O MOBIL OIL CORP  
PO DRAWER G  
CORTEZ CO 81321  
 phone (303) 564-5212  
 account no. N7370

FROM (former operator) M E P N A  
 (address) C/O MOBIL OIL CORP  
PO DRAWER G  
CORTEZ CO 81321  
 phone (303) 564-5212  
 account no. N7370

Well(s) (attach additional page if needed):

Name: <u>** SEE ATTACHED **</u>	API: <u>037-16434</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-31-95
- LWP 7. Well file labels have been updated for each well listed above. 9-18-95
- Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

### ENTITY REVIEW

- Lee* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (Fee wells only)

*\* No Fee Lease Wells at this time!*

- N/A* *Lee* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- \_\_\_ 2. A copy of this form has been placed in the new and former operators' bond files.
- \_\_\_ 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_\_. Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* *UTS* *8/5/95* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

### FILMING

- ✓* 1. All attachments to this form have been microfilmed. Date: October 4 1995.

### FILING

- \_\_\_ 1. Copies of all attachments to this form have been filed in each well file.
- \_\_\_ 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

*950803 UIC F5/Not necessary!*

STATE OF UTAH  
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-15722	16W23	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-16414	16W21	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-16416	17W21	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15726	17W12	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15731	17W41	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16417	17W43	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15728	17W23	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15730	17W34	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15729	17W32	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15727	17W14	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-31153	18W12	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15737	18W34	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15736	18W32	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-30244	18W23	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15735	18W14	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-16418	18W21	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15738	18W41	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15741	19W21	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15742	19W23	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15745	19W41	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-16420	19W43	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15748	20W23	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-15751	20W41	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16423	20W21	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16424	20W43	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16427	21W43	41S	24E	21	INJW	Y
✓MEPNA (MOBIL	43-037-16425	21W21	41S	24E	21	INJW	Y
✓MEPNA (MOBIL	43-037-16431	28W21	41S	24E	28	INJI	Y
✓MEPNA (MOBIL	43-037-16433	29W41	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-16432	29W21	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-15338	29W23	41S	24E	29	INJI	Y
✓MEPNA (MOBIL	43-037-16434	29W43	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-15343	30-41	41S	24E	30	INJW	Y
✓MEPNA (MOBIL	43-037-16435	30W21	41S	24E	30	INJI	--

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.\*  
\*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 29, T41S, R24E  
(NE/SE) 1980' FSL & 660' FEL

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-407

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD 29-W-43

9. API Well No.

43-037-16434

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

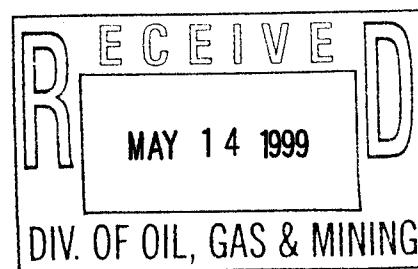
TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other MIT CHART
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE ATTACHED CHART.



14. I hereby certify that the foregoing is true and correct

Signed

*Shirley Houchins*

Title

SHIRLEY HOUCHINS/ENV & REG TECH

Date

5-12-99

(This space for Federal or State office use)

Approved by

Title

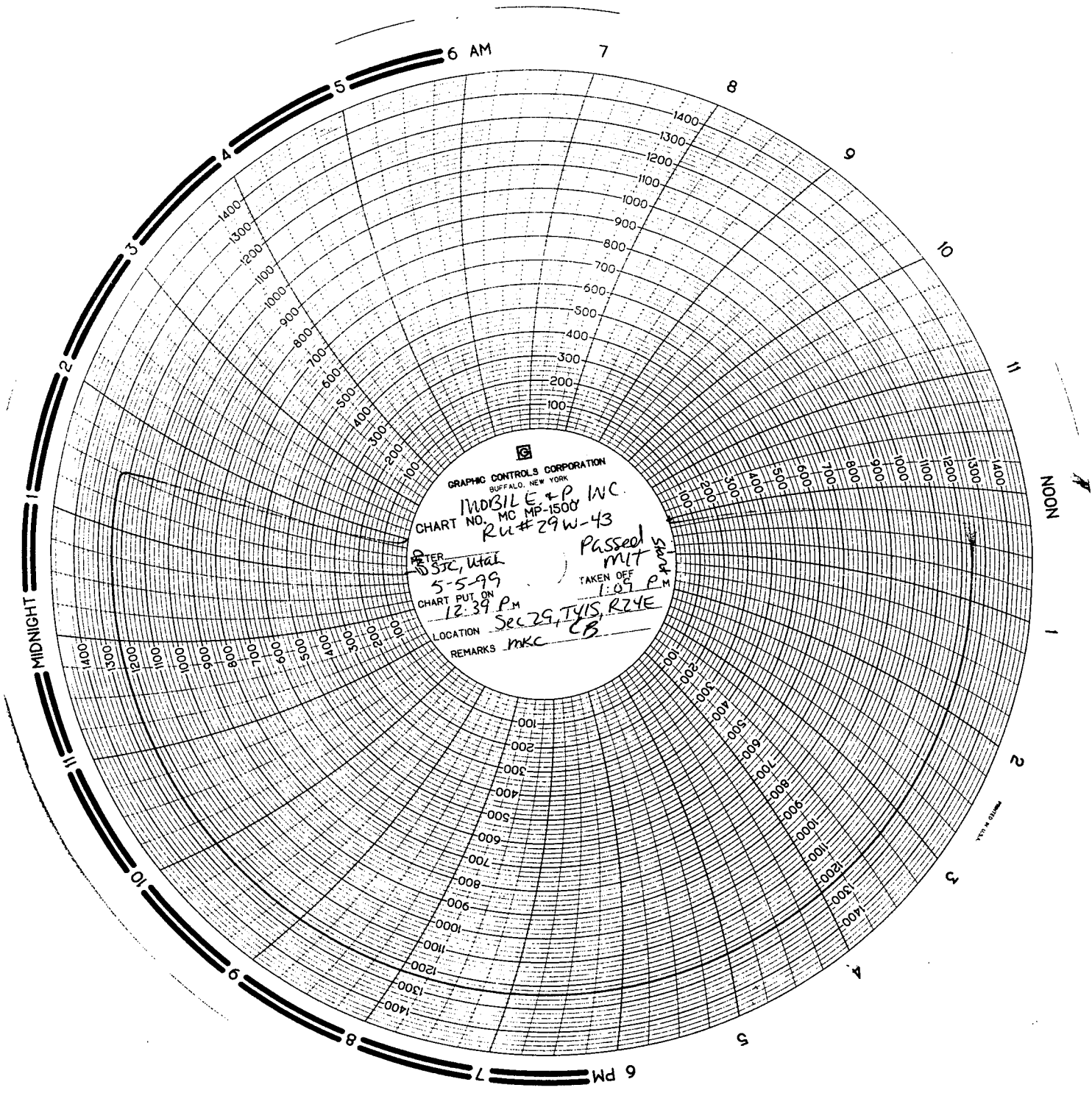
Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\* See Instruction on Reverse Side





GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK  
INDIBLE & P, INC.  
CHART NO. MC MP-1500  
RU # 29W-43  
PETER, Utah  
5-5-99  
CHART PUT ON 12:39 P.M.  
LOCATION Sec 29, T41S, R24E  
REMARKS MKC CB  
Passed by MIT  
TAKEN OFF 1:05 P.M.

ExxonMobil Production Company

U.S. West

P.O. Box 4358

Houston, Texas 77210-4358

June 27, 2001

**ExxonMobil**  
*Production*

Mr. Jim Thompson  
State of Utah, Division of Oil, Gas and Mining  
1549 West North Temple  
Suite 1210  
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,

*Charlotte H. Harper*

Charlotte H. Harper  
Permitting Supervisor

ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

RECEIVED

STATE OF  
UTAH  
DIVISION OF  
OIL AND GAS MINING



IN REPLY REFER TO:

# United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

XXXXXXXXXXXXXXXXXXXX  
Navajo Area Office  
NAVAJO REGION

P.O. Box 1060

Gallup, New Mexico 87305-1060

AUG 30 2001

RRES/543

## CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor  
Exxon Mobil Production Company  
U. S. West  
P. O. Box 4358  
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DENNET DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓  
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES	
ADM 1	<i>DB/MC</i>
NATV AM MIN COORD	
SOLID MIN TEAM	
PETRO MENT TEAM <i>2</i>	
O & G INSPECTION TEAM	
ALL TEAM LEADERS	
LAND RESOURCES	
ENVIRONMENT	
FILES	

**ExxonMobil Production Company**

U.S. West

P.O. Box 4358

Houston, Texas 77210-4358

PSS 7/12/2001

JH

543

File

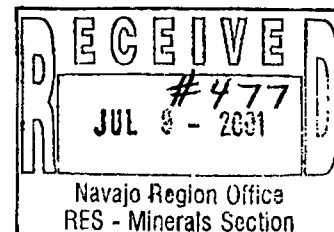
June 27, 2001

Certified Mail

Return Receipt Requested

**ExxonMobil**  
Production

Ms. Genni Denetsone  
United States Department of the Interior  
Bureau of Indian Affairs, Navajo Region  
Real Estate Services  
P. O. Box 1060  
Gallup, New Mexico 87305-1060  
Mail Code 543



Change of Name -  
Mobil Oil Corporation to  
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

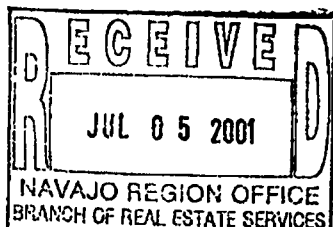
Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-. Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper  
Permitting Supervisor

Attachments



ExxonMobil Production Company  
a division of Exxon Mobil Corporation,  
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isaac.

Bureau of Indian Affairs  
Navajo Region Office  
Attn: RRES - Mineral and Mining Section  
P.O. Box 1060  
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

#### OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

#### DIRECTORS

Name	<u>D.D. Humphreys</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>


Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800 whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



  
Signature  
AGENT AND ATTORNEY IN FACT  
Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

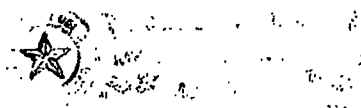
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

S. A. Milligan  
Assistant Secretary

COUNTY OF DALLAS )  
STATE OF TEXAS )  
UNITED STATES OF AMERICA )

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips  
Notary Public



**LISTING OF LEASES OF MOBIL OIL CORPORATION****Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

**CHUBB GROUP OF INSURANCE COMPANIES**

1000 West 10th Street, Suite 1900, Houston, Texas 77027-3301  
Tel: (713) 297-4600 • Fax: (713) 297-4750

*NW Bond*

**FEDERAL INSURANCE COMPANY RIDER**  
to be attached to and form a part of

**BOND NO 8027 31 97**

wherein

**Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is**  
named as Principal and

**FEDERAL INSURANCE COMPANY AS SURETY,**

**in favor of United States of America, Department of the Interior**  
**Bureau of Indian Affairs**

**in the amount of \$150,000.00**

**bond date: 11/01/65**

**IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001**  
**the name of the Principal is changed**

**FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

**TO : ExxonMobil Oil Corporation**

**All other terms and conditions of this Bond are unchanged.**

**Signed, sealed and dated this 12<sup>th</sup> of June, 2001.**

**ExxonMobil Oil Corporation**

By : 

**FEDERAL INSURANCE COMPANY**

By: 

**Mary Pierson, Attorney-in-fact**





**POWER  
OF  
ATTORNEY**

**Federal Insurance Company  
Vigilant Insurance Company  
Pacific Indemnity Company**

**Attn.: Surety Department  
15 Mountain View Road  
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint

Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas----- **R.F. Bobo,**

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

*Kenneth C. Wendel*  
Kenneth C. Wendel, Assistant Secretary

*Frank E. Robertson*  
Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.  
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies in the presence of the deponent's presence.



Notary Public State of New Jersey  
No. 2231647

Commission Expires 02-28-2004

*Karen A. Price*  
Notary Public

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001



*Kenneth C. Wendel*  
Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY  
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

**FIRST:** That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

**SECOND:** That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

**THIRD:** That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,  
ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

CSC  
CSC

5184334741

06/01 '01 08:47 NO. 410 04/05  
06/01 '01 09:00 NO. 133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



F. A. Risch, President

STATE OF TEXAS )

COUNTY OF DALLAS )

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.



F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

  
NOTARY PUBLIC, STATE OF TEXAS

=&gt; CSC

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06/01'01 08:19

CSC  
CSC

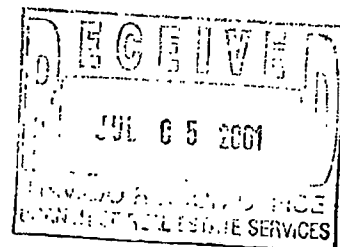
5184334741

06/01 '01 09:01 NO. 411 02/02  
06/01 '01 09:06 NO. 152 04/04  
**F010601000187****CSC 45****CERTIFICATE OF AMENDMENT****OF****MOBIL OIL CORPORATION**

Under Section 805 of the Business Corporation Law

*SAC***STATE OF NEW YORK  
DEPARTMENT OF STATE**Filed by: EXXONMOBIL CORPORATION  
(Name)

FILED JUN 01 2001

5959 Las Colinas Blvd.  
(Mailing address)TAX \$ \_\_\_\_\_  
BY: *SAC*Irving, TX 75039-2298  
(City, State and Zip code)*ny Albany**Cust Ref # 165578 MPJ***010601000195**

=&gt; CSC

TEL=5184334741

06/01'01 08:19

*State of New York }  
Department of State } ss:*

*I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.*

*Witness my hand and seal of the Department of State on* **JUN 01 2001**



*Special Deputy Secretary of State*

## 1. GLH

## 2. CDW

3. FILE

### Designation of Agent

## Merger

06-01-2001

**TO:** ( New Operator):

EXXONMOBIL OIL CORPORATION

Address: U S WEST P O BOX 4358

HOUSTON, TX 77210-4358

Phone: 1-(713)-431-1010

Account No. N1855

Unit: RATHERFORD

**WELL(S)**

[illegible]

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")**

The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**NOTE: EPA ISSUES UIC PERMITS**

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 04/18/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/18/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: N/A

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: N/A

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 80273197

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

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Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**6/1/2006**

**FROM: (Old Operator):**

N1855-ExxonMobil Oil Corporation

PO Box 4358

Houston, TX 77210-4358

Phone: 1 (281) 654-1936

**TO: ( New Operator):**

N2700-Resolute Natural Resources Company

1675 Broadway, Suite 1950

Denver, CO 80202

Phone: 1 (303) 534-4600

**CA No.**

**Unit:**

**RATHERFORD (UIC)**

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted on: \_\_\_\_\_
- 6a. (R649-9-2) Waste Management Plan has been received on: requested
- 6b. Inspections of LA PA state/fee well sites complete on: n/a
- 6c. Reports current for Production/Disposition & Sundries on: ok
7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. **Receipt of Acceptance of Drilling Procedures for APD/New** on: n/a

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

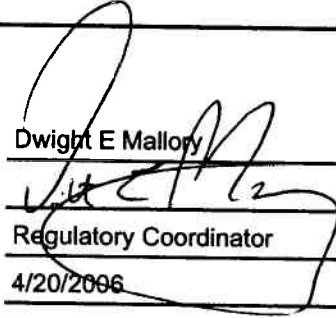
Well Name and Number See attached list	API Number Attached
Location of Well Footage: See attached list County: San Juan QQ, Section, Township, Range: State: UTAH	Field or Unit Name Ratherford Unit Lease Designation and Number See attached list

EFFECTIVE DATE OF TRANSFER: 6/1/2006


CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation  
Address: PO Box 4358  
city Houston state TX zip 77210-4358  
Phone: (281) 654-1936  
Name: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_  
Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company  
Address: 1675 Broadway, Suite 1950  
city Denver state CO zip 80202  
Phone: (303) 534-4600  
Name: Dwight E Mallory  
Signature:   
Title: Regulatory Coordinator  
Date: 4/20/2006  
Comments: A list of affected UIC wells is attached.  
New bond numbers for these wells are:  
BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by:   
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>See attached list</u>
2. NAME OF OPERATOR: <u>Resolute Natural Resources Company</u> <u>N2700</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Navajo Tribe</u>
3. ADDRESS OF OPERATOR: <u>1675 Broadway, Suite 1950</u> CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME: <u>Ratherford Unit</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See attached list</u>		8. WELL NAME and NUMBER: <u>See attached list</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>                    </u>		9. API NUMBER: <u>Attached</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Greater Aneth</u>
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) Dwight E Mallory

TITLE Regulatory Coordinator

SIGNATURE Dwight E Mallory

DATE 4/20/2006

(This space for State use only)

APPROVED 6127106

Earlene Russell

Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:  
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N1855</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Ship Rock</u>
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77210-4358</u>		7. UNIT or CA AGREEMENT NAME: <u>UTU68931A</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE:  QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		8. WELL NAME and NUMBER: <u>Ratherford</u>
PHONE NUMBER: <u>(281) 654-1936</u>		9. API NUMBER: <u>attached</u>
		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>

COUNTY: San Juan

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) <u>Laurie Kilbride</u>	TITLE <u>Permitting Supervisor</u>
SIGNATURE <u>Laurie Kilbride</u>	DATE <u>4/19/2006</u>

(This space for State use only)

**APPROVED** 6/27/06  
Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician  
(See Instructions on Reverse Side)

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**APR 21 2006**

**GREATER ANETH FIELD UIC WELL LIST**  
**Ratherford lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location							
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot	
RATHERFORD UNIT	1W24	430371583900S1	Shut-in	14-20-603-246A	NE	SE	1	41S	23E	0651FSL	3300FEL	
RATHERFORD UNIT	2W44	430371638600S1	Active	14-20-603-246A	SE	SE	2	41S	23E	0810FSL	0510FEL	
RATHERFORD UNIT	11W42	430371584100S1	Active	14-20-603-246A	SE	NE	11	41S	23E	3290FSL	4617FWL	
RATHERFORD UNIT	11W44	430371584200S1	Shut-in	14-20-603-246A	SE	SE	11	41S	23E	0660FSL	0558FEL	
RATHERFORD UNIT	12W11	430371584300S1	Active	14-20-603-246A	NW	NW	12	41S	23E	0678FNL	4620FEL	
RATHERFORD UNIT	12W13	430371640400S1	Active	14-20-603-246A	NW	SW	12	41S	23E	1980FSL	4620FEL	
RATHERFORD UNIT	12W22	430371584501S1	Active	14-20-603-246A	SE	NW	12	41S	23E	1920FNL	2080FWL	
RATHERFORD UNIT	12W24	430373115101S1	Active	14-20-603-246A	SE	SW	12	41S	23E	0775FSL	1980FWL	
RATHERFORD UNIT	12W31	430371584700S1	Active	14-20-603-246A	NW	NE	12	41S	23E	0661FNL	1981FEL	
RATHERFORD UNIT	12W33	430371584800S1	Active	14-20-603-246A	NW	SE	12	41S	23E	1958FSL	3300FEL	
RATHERFORD UNIT	12W42	430371585000S1	Active	14-20-603-246A	SE	NE	12	41S	23E	3275FSL	0662FEL	
RATHERFORD UNIT	12W44A	430373154300S1	Shut-in	14-20-603-246A	SE	SE	12	41S	23E	0772FSL	0807FEL	
RATHERFORD UNIT	13W11	430373115201S1	Active	14-20-603-247A	NW	NW	13	41S	23E	0500FNL	0660FWL	
RATHERFORD UNIT	13W13	430371585100S1	Active	14-20-603-247A	NW	SW	13	41S	23E	1980FSL	4620FEL	
RATHERFORD UNIT	13W22	430371585200S1	Active	14-20-603-247A	SE	NW	13	41S	23E	1988FNL	3300FEL	
RATHERFORD UNIT	13W24	430371585300S1	Active	14-20-603-247A	SE	SW	13	41S	23E	0660FSL	3300FEL	
RATHERFORD UNIT	13W33	430371585501S1	Active	14-20-603-247A	NW	SE	13	41S	23E	1970FSL	1979FEL	
RATHERFORD UNIT	13W42	430371585700S1	Shut-in	14-20-603-247A	SE	NE	13	41S	23E	2139FNL	0585FEL	
RATHERFORD UNIT	13W44	430371640700S1	Active	14-20-603-247A	SE	SE	13	41S	23E	0653FSL	0659FEL	
RATHERFORD UNIT	14-31	430373171700S1	Active	14-20-603-247A	NW	NE	14	41S	23E	0754FNL	1604FEL	
RATHERFORD UNIT	14W42	430371586001S1	Active	14-20-603-247A	SE	NE	14	41S	23E	1976FNL	653FEL	
RATHERFORD UNIT	24W31	430371586200S1	Shut-in	14-20-603-247A	NW	NE	24	41S	24E	0560FNL	1830FEL	
RATHERFORD UNIT	24W42	430371586300S1	Shut-in	14-20-603-247A	SE	NE	24	41S	24E	1980FNL	0660FEL	
RATHERFORD UNIT	17W12	430371572601S1	Active	14-20-603-353	SW	NW	17	41S	24E	1980FNL	510FWL	
RATHERFORD UNIT	17W14	430371572700S1	Active	14-20-603-353	SW	SW	17	41S	24E	0610FSL	0510FWL	
RATHERFORD UNIT	17W21	430371641601S1	Active	14-20-603-353	NE	NW	17	41S	24E	0510FNL	1830FWL	
RATHERFORD UNIT	17W23	430371572801S1	Active	14-20-603-353	NE	SW	17	41S	24E	1880FSL	1980FWL	
RATHERFORD UNIT	17W32	430371572900S1	TA'd	14-20-603-353	SW	NE	17	41S	24E	1830FNL	2030FEL	
RATHERFORD UNIT	17W34	430371573000S1	Active	14-20-603-353	SW	SE	17	41S	24E	0560FSL	1880FEL	
RATHERFORD UNIT	17W41	430371573100S1	Shut-in	14-20-603-353	NE	NE	17	41S	24E	0610FNL	0510FEL	
RATHERFORD UNIT	17W43	430371641701S1	Active	14-20-603-353	NE	SE	17	41S	24E	1980FSL	0660FEL	
RATHERFORD UNIT	18-43B	430373171801S1	Active	14-20-603-353	NE	SE	18	41S	24E	2023FSL	0651FEL	
RATHERFORD UNIT	18W12	430373115301S1	Active	14-20-603-353	SW	NW	18	41S	24E	1980FNL	560FWL	
RATHERFORD UNIT	18W14	430371573501S1	Active	14-20-603-353	SW	SW	18	41S	24E	0810FSL	0600FWL	
RATHERFORD UNIT	18W21	430371641801S1	Active	14-20-603-353	NE	NW	18	41S	24E	660FNL	1882FWL	
RATHERFORD UNIT	18W23	430373024400S1	Shut-in	14-20-603-353	NE	SW	18	41S	24E	2385FSL	2040FWL	
RATHERFORD UNIT	18W32	430371573601S1	Active	14-20-603-353	SW	NE	18	41S	24E	2140FNL	1830FEL	
RATHERFORD UNIT	18W34	430371573701S1	Active	14-20-603-353	SW	SE	18	41S	24E	780FSL	1860FEL	
RATHERFORD UNIT	18W41	430371573800S1	TA'd	14-20-603-353	NE	NE	18	41S	24E	0660FNL	0660FEL	
RATHERFORD UNIT	19-12	430371573901S1	Active	14-20-603-353	SW	NW	19	41S	24E	1980FNL	0600FWL	
RATHERFORD UNIT	19-32	430371574301S1	Active	14-20-603-353	SW	NE	19	41S	24E	2717FNL	2802FEL	
RATHERFORD UNIT	19-34	430371574401S1	Active	14-20-603-353	SW	SE	19	41S	24E	0660FSL	1980FEL	
RATHERFORD UNIT	19W21	430371574100S1	Shut-in	14-20-603-353	NE	NW	19	41S	24E	0660FNL	1860FWL	
RATHERFORD UNIT	19W23	430371574200S1	Shut-in	14-20-603-353	NE	SW	19	41S	24E	2080FSL	1860FWL	
RATHERFORD UNIT	19W43	430371642000S1	Shut-in	14-20-603-353	NE	SE	19	41S	24E	1980FSL	0760FEL	
RATHERFORD UNIT	20-12	430371574601S1	Active	14-20-603-353	SW	NW	20	41S	24E	0709FNL	0748FEL	
RATHERFORD UNIT	20-14	430371574701S1	Active	14-20-603-353	SW	SW	20	41S	24E	0660FSL	0660FWL	
RATHERFORD UNIT	20-32	430371574901S1	Active	14-20-603-353	SW	NE	20	41S	24E	0037FNL	0035FWL	
RATHERFORD UNIT	20-34	430371575001S1	Active	14-20-603-353	SW	SE	20	41S	24E	0774FNL	0617FWL	
RATHERFORD UNIT	20-67	430373159000S1	Active	14-20-603-353	NE	SW	20	41S	24E	2629FSL	1412FWL	
RATHERFORD UNIT	20W21	430371642300S1	Active	14-20-603-353	NE	NW	20	41S	24E	0660FNL	1880FWL	
RATHERFORD UNIT	20W23	430371574800S1	Active	14-20-603-353	NW	SW	20	41S	24E	2080FSL	2120FWL	
RATHERFORD UNIT	20W41	430371575100S1	Active	14-20-603-353	NE	NE	20	41S	24E	0660FNL	0660FEL	
RATHERFORD UNIT	20W43	430371642400S1	TA'd	14-20-603-353	NE	SE	20	41S	24E	2070FSL	0810FEL	
RATHERFORD UNIT	16W12	430371572000S1	Active	14-20-603-355	SW	NW	16	41S	24E	1880FNL	0660FWL	

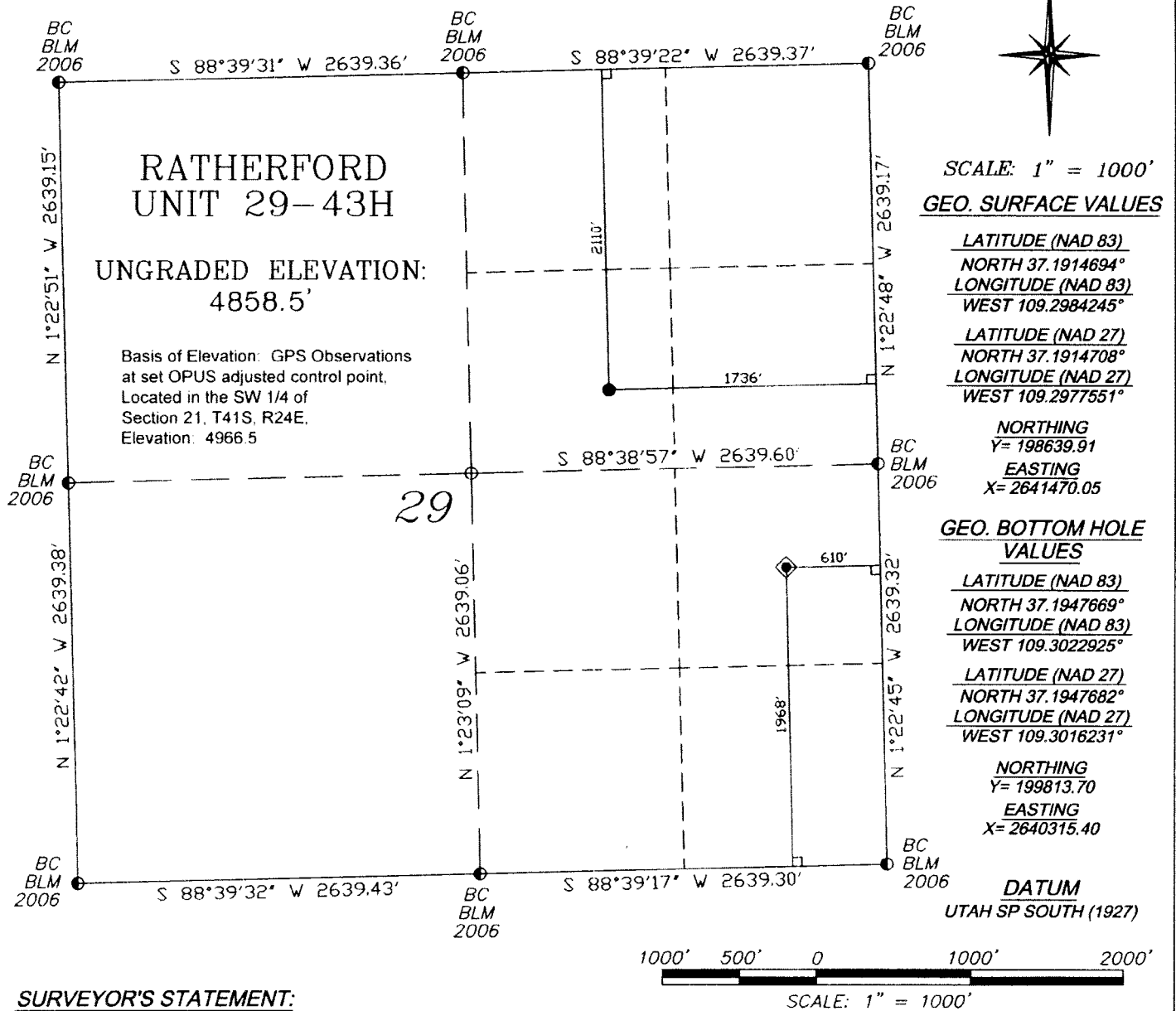
**GREATER ANETH FIELD UIC WELL LIST**  
**Ratherford lease, San Juan County, Utah**

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
RATHERFORD UNIT	16W14	430371572100S1	Shut-in	14-20-603-355	SW	SW	16	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	16W21	430371641400S1	Active	14-20-603-355	NE	NW	16	41S	24E	0660FNL	1880FWL
RATHERFORD UNIT	16W23	430371572201S1	Active	14-20-603-355	NE	SW	16	41S	24E	1980FSL	1980FWL
RATHERFORD UNIT	16W43	430371641501S1	Active	14-20-603-355	NE	SE	16	41S	24E	2140FSL	0820FEL
RATHERFORD UNIT	21-14	430371575301S1	Active	14-20-603-355	SW	SW	21	41S	24E	0660FSL	0460FWL
RATHERFORD UNIT	21-67	430373175301S1	Active	14-20-603-355	NE	SW	21	41S	24E	2560FSL	1325FWL
RATHERFORD UNIT	21W21	430371642501S1	Active	14-20-603-355	NE	NW	21	41S	24E	0660FNL	2030FWL
RATHERFORD UNIT	6W14	430371598400S1	Active	14-20-603-368	NE	SE	6	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	7W12	430371598500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2140FNL	0585FWL
RATHERFORD UNIT	7W14	430371598600S1	Active	14-20-603-368	NE	SE	7	41S	24E	1065FSL	0660FWL
RATHERFORD UNIT	7W21	430371639400S1	Active	14-20-603-368	NE	NW	7	41S	24E	0710FNL	1820FWL
RATHERFORD UNIT	7W34	430371598900S1	Active	14-20-603-368	SW	SE	7	41S	24E	0710FSL	2003FEL
RATHERFORD UNIT	7W43	430371639500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2110FSL	0660FEL
RATHERFORD UNIT	8W14	430371599200S1	Active	14-20-603-368	SW	NE	8	41S	24E	0745FSL	0575FWL
RATHERFORD UNIT	10W43	430371640300S1	TA'd	14-20-603-4037	NE	SE	10	41S	24E	1980FSL	0550FEL
RATHERFORD UNIT	29-12	430371533701S1	Active	14-20-603-407	SW	NW	29	41S	24E	2870FNL	1422FWL
RATHERFORD UNIT	29-32	430371533901S1	Active	14-20-603-407	SW	NE	29	41S	24E	0694FNL	0685FWL
RATHERFORD UNIT	29W21	430371643200S1	Active	14-20-603-407	NE	NW	29	41S	24E	0667FNL	2122FWL
RATHERFORD UNIT	29W41	430371643300S1	Active	14-20-603-407	NE	NE	29	41S	24E	0557FNL	0591FEL
RATHERFORD UNIT	29W43	430371643400S1	Shut-in	14-20-603-407	NE	SE	29	41S	24E	1980FSL	0660FEL
RATHERFORD UNIT	30W41	430371534300S1	Shut-in	14-20-603-407	NE	NE	30	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	28-12	430371533601S1	Active	14-20-603-409	SW	SE	28	41S	24E	2121FNL	0623FWL
RATHERFORD UNIT	28W21	430371643100S1	Shut-in	14-20-603-409	NE	NW	28	41S	24E	0660FNL	2022FWL
RATHERFORD UNIT	9W23	430371639800S1	Active	14-20-603-5046	NW	SE	9	41S	24E	1980FSL	1980FWL

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-407			
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO			
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD			
<b>3. ADDRESS OF OPERATOR:</b> 1675 Boradway Ste 1950 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> <i>Ratherford Unit F29-43H</i>			
<b>PHONE NUMBER:</b> 303 534-4600 Ext		<b>9. API NUMBER:</b> 43037164340000			
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: <i>Re-Surveyed 1968' FSL 610' FCL</i> 1980 FSL 0000 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 29 Township: 41.0S Range: 24.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH			
<b>COUNTY:</b> SAN JUAN		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/31/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input checked="" type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  <input type="text"/> OTHER:         </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION <input type="text"/> OTHER:
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Resolute plans to sidetrack/deepen this temporarily abandoned well to re-install as an injection well. The proposed procedure and drilling plan is attached. Work is anticipated to begin 10-31-13.  <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p><i>Surf</i></p> <p><i>651033X</i></p> <p><i>4117458Y</i></p> <p><i>37.191364</i></p> <p><i>-104.398341</i></p> </div> <div style="width: 40%; text-align: center;"> <p><i>BHL</i></p> <p><i>650682X</i></p> <p><i>4117821Y</i></p> <p><i>37.194648</i></p> <p><i>-104.302214</i></p> </div> <div style="width: 20%; text-align: right;"> <p><b>Approved by the</b>  <b>Utah Division of</b>  <b>Oil, Gas and Mining</b></p> <p><b>Date:</b> <i>11-14-13</i></p> <p><b>By:</b> <i>[Signature]</i></p> </div> </div>					
<b>NAME (PLEASE PRINT)</b> Sherry Glass		<b>PHONE NUMBER</b> 303 573-4886			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Sr Regulatory Technician			
<b>DATE</b> 10/25/2013					

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
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<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: 1968 FSL 0610 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 29 Township: 41.0S Range: 24.0E Meridian: S		<b>9. API NUMBER:</b> 43037164340000																														
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<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/1/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input checked="" type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.</b> Clearly show all pertinent details including dates, depths, volumes, etc.  Resolute would request changing the well name to the Ratherford Unit 29-43H, based on the proposed intent to leave the vertical well bore and drill-out a lateral to put the well back to injection.																																
Approved by the Utah Division of Oil, Gas and Mining																																
Date: <u>11-14-13</u> By:																																
<b>NAME (PLEASE PRINT)</b> Sherry Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Technician																														
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/29/2013																														

**T. 41 S., R. 24 E., S.L.M.**



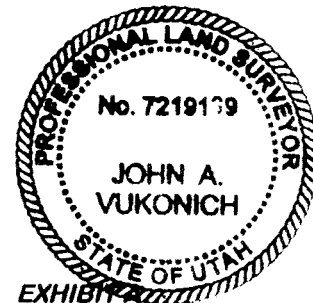
**SURVEYOR'S STATEMENT:**

I, John A. Vukonich, of Farmington, New Mexico, hereby state: This plat was made from notes taken during an actual survey under my direct supervision on SEPTEMBER 27, 2013, and it correctly shows the location of RATHERFORD UNIT 29-43H.

**LEGEND**

- ◆ SURFACE WELL LOCATION
- BOTTOM HOLE LOCATION
- L DENOTES 90° TIE
- ⊙ FOUND MONUMENT
- ⊕ SECTION CORNER POSITION CALCULATED FROM WITNESS CORNER

*John A. Vukonich*  
UTAH PLS No. 7219139-2201 DATE 10-3-2013  
johnv@ufsnm.com



P.O. BOX 3651  
FARMINGTON, N.M.  
(505) 334-0408

**SCALE: 1" = 1000'**

**JOB No. 10576**

**DATE: 10/02/13**

**PLAT OF PROPOSED WELL LOCATION  
FOR  
RESOLUTE NATURAL RESOURCES COMPANY  
RATHERFORD UNIT 29-43H  
1968' F/SL & 610' F/EL SECTION 29,  
T. 41 S., R. 24 E., SALT LAKE MERIDIAN  
SAN JUAN COUNTY, UTAH**



**Ratherford Unit 29-43H**

1968' FSL & 610' FEL

Sec 29, T41S, R24E

San Juan County, Utah

API 43-037-16434

*Job Scope – Remove top ~1,600' of 5-1/2" casing, sidetrack the existing 7" casing to top of Lower Ismay. Exit 7" casing with 6-1/8" bit and drill ~2,500 of OH wellbore for injection into the Desert Creek IA interval. The new lateral will be left open hole for injection.*

Procedure: (Sundry Notice of Intent)

1. MIRU Well Service Unit.
2. Section mill and remove existing 5-1/2" to ~ 1,600'
3. NU BOP, PU 8-3/4" bit and sidetrack around existing wellbore to ~ 5,465'.
4. Set new 7" 26# J-55 at ~ 5,465', and cement back to surface
5. Drill out of 7" casing with 6-1/8" bit, building curve and drilling lateral to ~ 2,500 VS at a 318 deg azi
6. Acid stimulate the OH lateral and flow back the acid load volume.
7. Run injection tubing on 7" Arrowset packer
8. ND BOPE, NU Injection head.
9. RDMO Drilling rig.

**ADDITIONAL SUPPORT INFORMATION**  
**Sundry – Notice of Intent**  
**Ratherford Unit 29-43H Producer**  
**Drill Sidetrack Horizontal Lateral for DC-1A Reserves**

1. Formation Tops

**Existing Formation Tops (TVD):**

Upper Ismay:	5463'
Lower Ismay:	5552'
Gothic Shale:	5601'
Desert Creek IA	5615'
Desert Creek IB	5663'

2. Wellbore Diagrams –

Existing Wellbore Diagram – Attachment No. 1

Proposed Wellbore Diagram – Attachment No. 2

3. BOP Diagram and Equipment Description – Attachment No. 3

4. Directional Plan – Attachment No. 4

5. Drilling Mud Specifications

- a. Proposed to drill laterals with N2 foamed fresh water fluid, in an underbalanced situation, or if conditions warrant,
- b. CaCl<sub>2</sub> brine water will be used, and if this will not control formation pressure during the drilling operations,
- c. Drilling mud with a salt polymer will be used if required for control of formation pressure during the drilling operations

# ***Resolute***

*Energy Corporation*

## **Resolute Natural Resources**

San Juan County, UT (Nad 83)

Sec 29, T41S, R24E

RU 29-43H

Hz

UWI:

WL:

Plan: #1

## **Standard Planning Report**

25 October, 2013



Sundry Number: 44135 API Well Number: 43037164340000



Project: San Juan County, UT (Nad83)  
 Site: Sec 29, T41S, R24E  
 Well: RU 29-43H  
 Wellbore: Hz  
 Plan: #1



Azimuths to True North  
 Magnetic North: 10.30°

Magnetic Field  
 Strength: 50560.4nT  
 Dip Angle: 63.50°  
 Date: 10/24/2013  
 Model: IGRF2010

Well Centre Reference  
 Geodetic System: US State Plane 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah Southern Zone  
 Northing: 10041021.75  
 Easting: 2281678.83  
 Latitude: 37° 11' 28.129 N  
 Longitude: 108° 17' 54.328 W  
 Grid Convergence: 1.35° West  
 Ground Elevation: 4888.5  
 KB Elevation: Est RKB @ 4875.0usft (Rq)

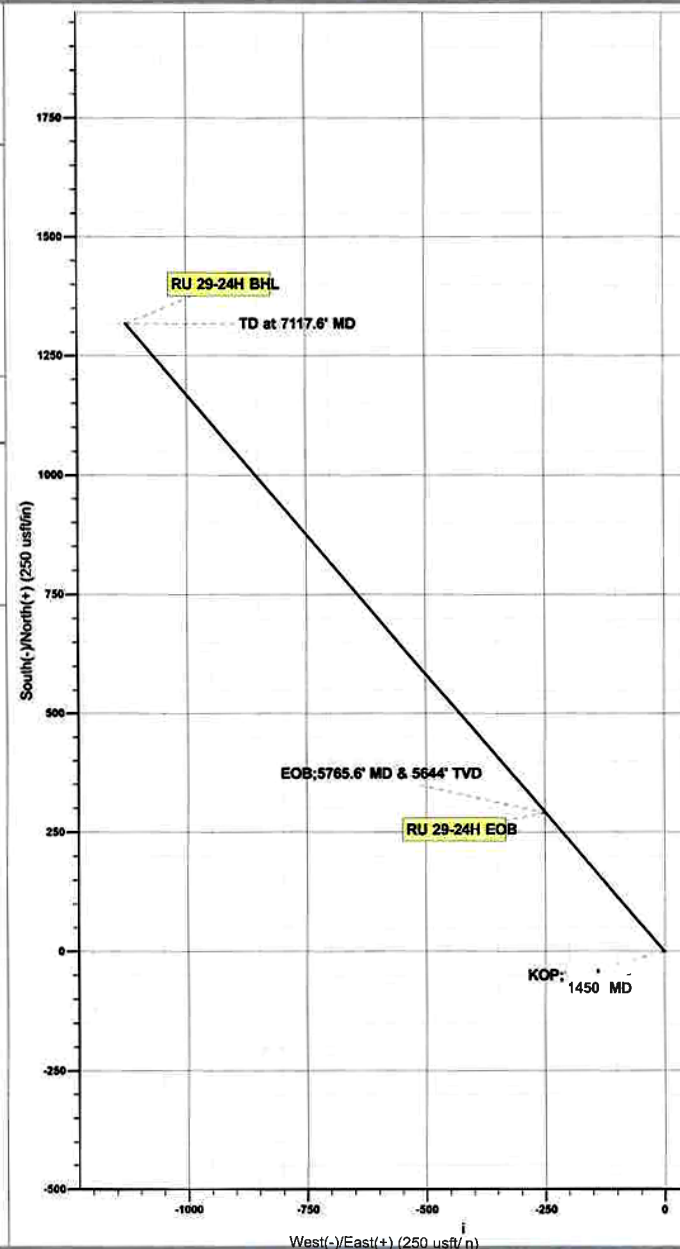
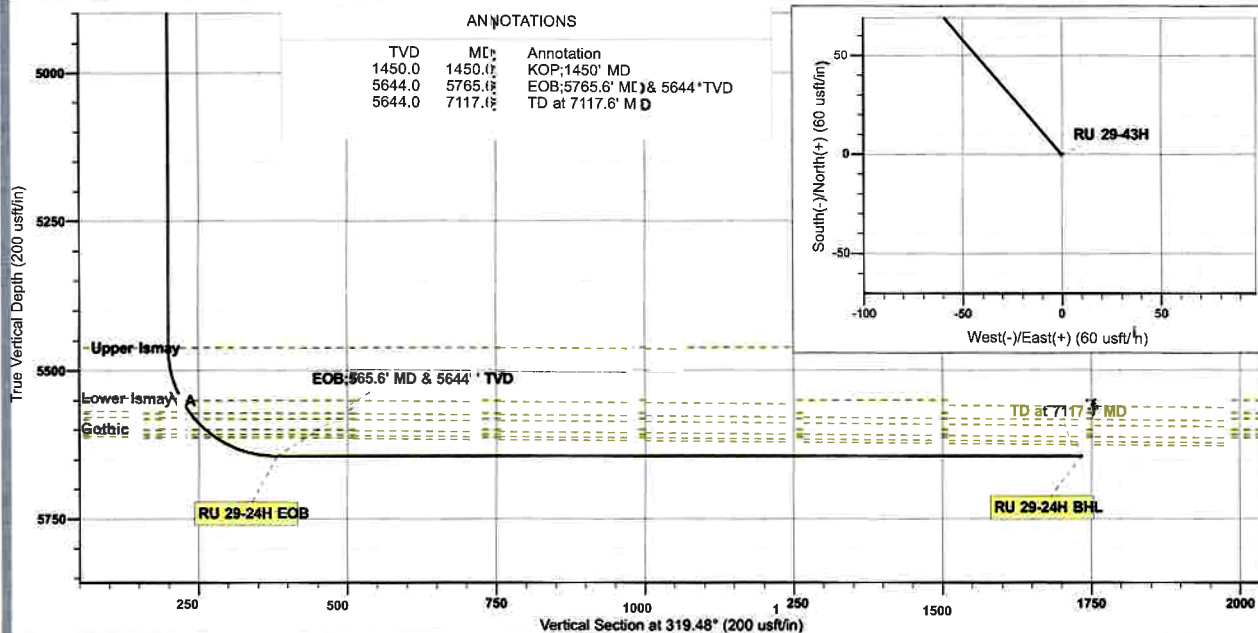
Formation Tops		
TVDPath	MDPath	Formation
1540.0	1540.0	Chinle estimate
2545.0	2561.3	De Chelley
2900.0	2917.7	Organ Rock
5462.0	5479.7	Upper Ismay
5551.0	5572.7	Lower Ismay A
5572.0	5597.8	Lower Ismay B
5582.0	5610.7	Lower Ismay C
5600.0	5636.3	Gothic
5608.0	5649.1	Gothic LSW
5613.0	5657.8	DC-IA

### PLAN DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Djcg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1450.0	0.00	0.00	1450.0	0.0	0.0	0.00	0.00	0.0	
3	2200.0	15.00	319.48	2191.5	74.2	-63.4	2.00	319.48	97.6	
4	2218.5	15.00	319.48	2209.3	77.8	-68.5	0.00	0.00	102.4	
5	2968.5	0.00	0.00	2950.8	152.1	-130.0	2.00	180.00	200.0	
6	5479.7	0.00	0.00	5462.0	152.1	-130.0	0.00	0.00	200.0	
7	5765.6	90.00	319.48	5644.0	290.4	-248.2	31.48	319.48	382.0	
8	7117.6	90.00	319.47	5644.0	1318.1	-1126.7	0.00	-90.00	1734.0	RU 29-24H BHL

### ANNOTATIONS

TVD	MD	Annotation
1450.0	1450.0	KOP: 1450' MD
5644.0	5765.6	EOB: 5765.6' MD & 5644' TVD
5644.0	7117.6	TD at 7117.6' MD



RECEIVED: Oct. 25, 2013

**Resolute**  
Energy Corporation**Mesa West Directional**  
Planning Report**MESA WEST**  
DIRECTIONAL

**Database:** EDM 5000.1 Single User Db  
**Company:** Resolute Natural Resources  
**Project:** San Juan County, UT (Nad 83)  
**Site:** Sec 29, T41S, R24E  
**Well:** RU 29-43H  
**Wellbore:** Hz  
**Design:** #1

**Local Co-ordinate Reference:** Well RU 29-43H  
**TVD Reference:** Est RKB @ 4875.0usft (Rig)  
**MD Reference:** Est RKB @ 4875.0usft (Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Project** San Juan County, UT (Nad 83)**Map System:** US State Plane 1983**System Datum:**

Mean Sea Level

**Geo Datum:** North American Datum 1983**Map Zone:** Utah Southern Zone

Using geodetic scale factor

**Site** Sec 29, T41S, R24E

**Site Position:** **Northing:** 10,041,021.75 usft **Latitude:** 37° 11' 28.129 N  
**From:** Lat/Long **Easting:** 2,281,678.83 usft **Longitude:** 109° 17' 54.328 W  
**Position Uncertainty:** 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 1.35 °

**Well** RU 29-43H

**Well Position** **+N/-S** 0.0 usft **Northing:** 10,041,021.75 usft **Latitude:** 37° 11' 28.129 N  
**+E/-W** 0.0 usft **Easting:** 2,281,678.83 usft **Longitude:** 109° 17' 54.328 W  
**Position Uncertainty** 0.0 usft **Wellhead Elevation:** **Ground Level:** 4,858.5 usft

**Wellbore** Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/24/2013	10.30	63.50	50,560

**Design** #1**Audit Notes:****Version:** **Phase:** PLAN **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	5,644.0	0.0	0.0	319.48

**Plan Sections**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.0	15.00	319.48	2,191.5	74.2	-63.4	2.00	2.00	0.00	319.48	
2,218.5	15.00	319.48	2,209.3	77.8	-66.5	0.00	0.00	0.00	0.00	
2,968.5	0.00	0.00	2,950.8	152.1	-130.0	2.00	-2.00	0.00	180.00	
5,479.7	0.00	0.00	5,462.0	152.1	-130.0	0.00	0.00	0.00	0.00	
5,765.6	90.00	319.48	5,644.0	290.4	-248.2	31.48	31.48	0.00	319.48	
7,117.6	90.00	319.47	5,644.0	1,318.1	-1,126.7	0.00	0.00	0.00	-90.00	RU 29-24H BHL

# Resolute

Energy Corporation

## Mesa West Directional

Planning Report

MESA WEST  
DIRECTIONAL

**Database:** EDM 5000.1 Single User Db  
**Company:** Resolute Natural Resources  
**Project:** San Juan County, UT (Nad 83)  
**Site:** Sec 29, T41S, R24E  
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**Wellbore:** Hz  
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**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>KOP;1450' MD</b>										
1,450.0	0.00	0.00	1,450.0	-3,425.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	1.00	319.48	1,500.0	-3,375.0	0.3	-0.3	0.4	2.00	2.00	0.00
<b>Chinle estimate</b>										
1,540.0	1.80	319.48	1,540.0	-3,335.0	1.1	-0.9	1.4	2.00	2.00	0.00
1,600.0	3.00	319.48	1,599.9	-3,275.1	3.0	-2.6	3.9	2.00	2.00	0.00
1,700.0	5.00	319.48	1,699.7	-3,175.3	8.3	-7.1	10.9	2.00	2.00	0.00
1,800.0	7.00	319.48	1,799.1	-3,075.9	16.2	-13.9	21.4	2.00	2.00	0.00
1,900.0	9.00	319.48	1,898.2	-2,976.8	26.8	-22.9	35.3	2.00	2.00	0.00
2,000.0	11.00	319.48	1,996.6	-2,878.4	40.0	-34.2	52.6	2.00	2.00	0.00
2,100.0	13.00	319.48	2,094.4	-2,780.6	55.8	-47.7	73.4	2.00	2.00	0.00
2,200.0	15.00	319.48	2,191.5	-2,683.5	74.2	-63.4	97.6	2.00	2.00	0.00
2,218.5	15.00	319.48	2,209.3	-2,665.7	77.8	-66.5	102.4	0.00	0.00	0.00
2,300.0	13.37	319.48	2,288.3	-2,586.7	93.0	-79.5	122.4	2.00	-2.00	0.00
2,400.0	11.37	319.48	2,386.0	-2,489.0	109.3	-93.4	143.8	2.00	-2.00	0.00
2,500.0	9.37	319.48	2,484.4	-2,390.6	123.0	-105.1	161.8	2.00	-2.00	0.00
<b>De Chelley</b>										
2,561.3	8.14	319.48	2,545.0	-2,330.0	130.1	-111.2	171.1	2.00	-2.00	0.00
2,600.0	7.37	319.48	2,583.3	-2,291.7	134.1	-114.6	176.4	2.00	-2.00	0.00
2,700.0	5.37	319.48	2,682.7	-2,192.3	142.5	-121.8	187.4	2.00	-2.00	0.00
2,800.0	3.37	319.48	2,782.4	-2,092.6	148.3	-126.7	195.1	2.00	-2.00	0.00
2,900.0	1.37	319.48	2,882.3	-1,992.7	151.4	-129.4	199.2	2.00	-2.00	0.00
<b>Organ Rock</b>										
2,917.7	1.02	319.48	2,900.0	-1,975.0	151.7	-129.7	199.6	2.00	-2.00	0.00
2,968.5	0.00	0.00	2,950.8	-1,924.2	152.1	-130.0	200.0	2.00	-2.00	0.00
3,000.0	0.00	0.00	2,982.3	-1,892.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,082.3	-1,792.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,182.3	-1,692.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,282.3	-1,592.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,382.3	-1,492.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,482.3	-1,392.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,582.3	-1,292.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,682.3	-1,192.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,782.3	-1,092.7	152.1	-130.0	200.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,882.3	-992.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,982.3	-892.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,082.3	-792.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,182.3	-692.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,282.3	-592.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,382.3	-492.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,482.3	-392.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,582.3	-292.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,682.3	-192.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,782.3	-92.7	152.1	-130.0	200.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,882.3	7.3	152.1	-130.0	200.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,982.3	107.3	152.1	-130.0	200.0	0.00	0.00	0.00

# Resolute

Energy Corporation

## Mesa West Directional

## Planning Report

MESA WEST  
DIRECTIONAL

**Database:** EDM 5000.1 Single User Db  
**Company:** Resolute Natural Resources  
**Project:** San Juan County, UT (Nad 83)  
**Site:** Sec 29, T41S, R24E  
**Well:** RU 29-43H  
**Wellbore:** Hz  
**Design:** #1

**Local Co-ordinate Reference:** Well RU 29-43H  
**TVD Reference:** Est RKB @ 4875.0usft (Rig)  
**MD Reference:** Est RKB @ 4875.0usft (Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	0.00	0.00	5,082.3	207.3	152.1	-130.0	200.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,182.3	307.3	152.1	-130.0	200.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,282.3	407.3	152.1	-130.0	200.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,382.3	507.3	152.1	-130.0	200.0	0.00	0.00	0.00
<b>Upper Ismay</b>										
5,479.7	0.00	0.00	5,462.0	587.0	152.1	-130.0	200.0	0.00	0.00	0.00
5,500.0	6.39	319.48	5,482.3	607.3	152.9	-130.7	201.1	31.48	31.48	0.00
<b>Lower Ismay A</b>										
5,572.7	29.28	319.48	5,551.0	676.0	169.7	-145.1	223.3	31.48	31.48	0.00
<b>Lower Ismay B</b>										
5,597.8	37.19	319.48	5,572.0	697.0	180.2	-154.0	237.0	31.48	31.48	0.00
5,600.0	37.87	319.48	5,573.7	698.7	181.2	-154.9	238.3	31.48	31.48	0.00
<b>Lower Ismay C</b>										
5,610.7	41.25	319.48	5,582.0	707.0	186.4	-159.3	245.2	31.48	31.48	0.00
<b>Gothic</b>										
5,636.3	49.31	319.48	5,600.0	725.0	200.2	-171.1	263.4	31.48	31.48	0.00
<b>Gothic LSW</b>										
5,649.1	53.34	319.48	5,608.0	733.0	207.8	-177.6	273.4	31.48	31.48	0.00
<b>DC-IA</b>										
5,657.8	56.06	319.48	5,613.0	738.0	213.2	-182.2	280.4	31.48	31.48	0.00
5,700.0	69.35	319.48	5,632.3	757.3	241.6	-206.5	317.8	31.48	31.48	0.00
<b>EOB;5765.6' MD &amp; 5644' TVD</b>										
5,765.6	90.00	319.48	5,644.0	769.0	290.4	-248.2	382.0	31.48	31.48	0.00
5,800.0	90.00	319.48	5,644.0	769.0	316.6	-270.6	416.4	0.00	0.00	0.00
5,900.0	90.00	319.48	5,644.0	769.0	392.6	-335.5	516.4	0.00	0.00	0.00
6,000.0	90.00	319.48	5,644.0	769.0	468.6	-400.5	616.4	0.00	0.00	0.00
6,100.0	90.00	319.48	5,644.0	769.0	544.6	-465.5	716.4	0.00	0.00	0.00
6,200.0	90.00	319.48	5,644.0	769.0	620.6	-530.5	816.4	0.00	0.00	0.00
6,300.0	90.00	319.48	5,644.0	769.0	696.6	-595.4	916.4	0.00	0.00	0.00
6,400.0	90.00	319.48	5,644.0	769.0	772.7	-660.4	1,016.4	0.00	0.00	0.00
6,500.0	90.00	319.48	5,644.0	769.0	848.7	-725.4	1,116.4	0.00	0.00	0.00
6,600.0	90.00	319.47	5,644.0	769.0	924.7	-790.4	1,216.4	0.00	0.00	0.00
6,700.0	90.00	319.47	5,644.0	769.0	1,000.7	-855.3	1,316.4	0.00	0.00	0.00
6,800.0	90.00	319.47	5,644.0	769.0	1,076.7	-920.3	1,416.4	0.00	0.00	0.00
6,900.0	90.00	319.47	5,644.0	769.0	1,152.7	-985.3	1,516.4	0.00	0.00	0.00
7,000.0	90.00	319.47	5,644.0	769.0	1,228.7	-1,050.3	1,616.4	0.00	0.00	0.00
7,100.0	90.00	319.47	5,644.0	769.0	1,304.7	-1,115.3	1,716.4	0.00	0.00	0.00
<b>TD at 7117.6' MD</b>										
7,117.6	90.00	319.47	5,644.0	769.0	1,318.1	-1,126.7	1,734.0	0.00	0.00	0.00

# Resolute

Energy Corporation

## Mesa West Directional

Planning Report

MESA WEST  
DIRECTIONAL

**Database:** EDM 5000.1 Single User Db  
**Company:** Resolute Natural Resources  
**Project:** San Juan County, UT (Nad 83)  
**Site:** Sec 29, T41S, R24E  
**Well:** RU 29-43H  
**Wellbore:** Hz  
**Design:** #1

**Local Co-ordinate Reference:** Well RU 29-43H  
**TVD Reference:** Est RKB @ 4875.0usft (Rig)  
**MD Reference:** Est RKB @ 4875.0usft (Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RU 29-24H BHL - plan hits target center - Point	0.00	0.00	5,644.0	1,318.1	-1,126.7	10,042,312.96	2,280,521.42	37° 11' 41.161 N	109° 18' 8.253 W
RU 29-24H EOB - plan hits target center - Point	0.00	0.00	5,644.0	290.4	-248.2	10,041,306.23	2,281,423.86	37° 11' 31.000 N	109° 17' 57.396 W

### Formations

Measured Depth (usft)	Vertical Depth (usft)	Subsea Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,540.0	1,540.0	3,335.0	Chinle estimate			
2,561.3	2,545.0	2,330.0	De Chelley			
2,917.7	2,900.0	1,975.0	Organ Rock			
5,479.7	5,462.0	-587.0	Upper Ismay			
5,572.7	5,551.0	-676.0	Lower Ismay A			
5,597.8	5,572.0	-697.0	Lower Ismay B			
5,610.7	5,582.0	-707.0	Lower Ismay C			
5,636.3	5,600.0	-725.0	Gothic			
5,649.1	5,608.0	-733.0	Gothic LSW			
5,657.8	5,613.0	-738.0	DC-IA			

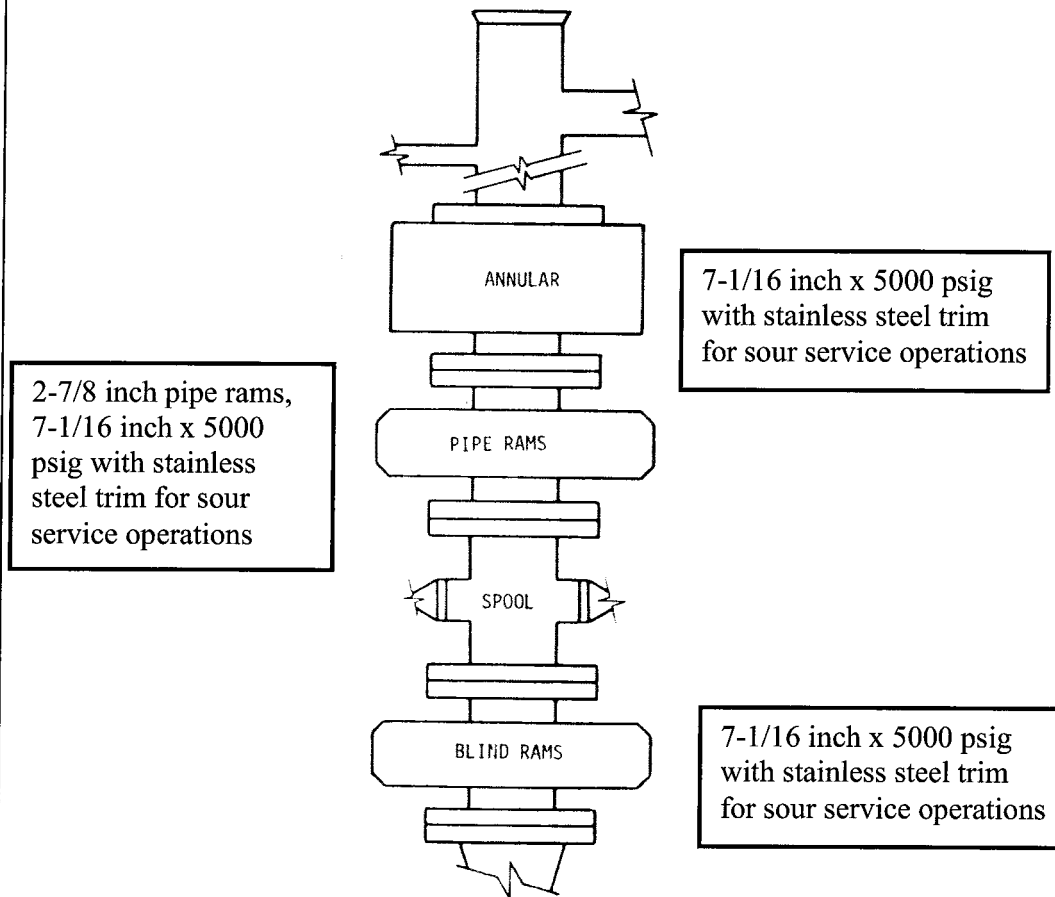
### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,450.0	1,450.0	0.0	0.0	KOP;1450' MD
5,765.6	5,644.0	74.2	-63.4	EOB;5765.6' MD & 5644' TVD
7,117.6	5,644.0	77.8	-66.5	TD at 7117.6' MD



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Attachment No. 3



TYPICAL WORKOVER BOP STACK

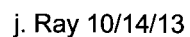
Figure 30

### CURRENT WELLBORE DIAGRAM

SEC 29-T41S-R24E

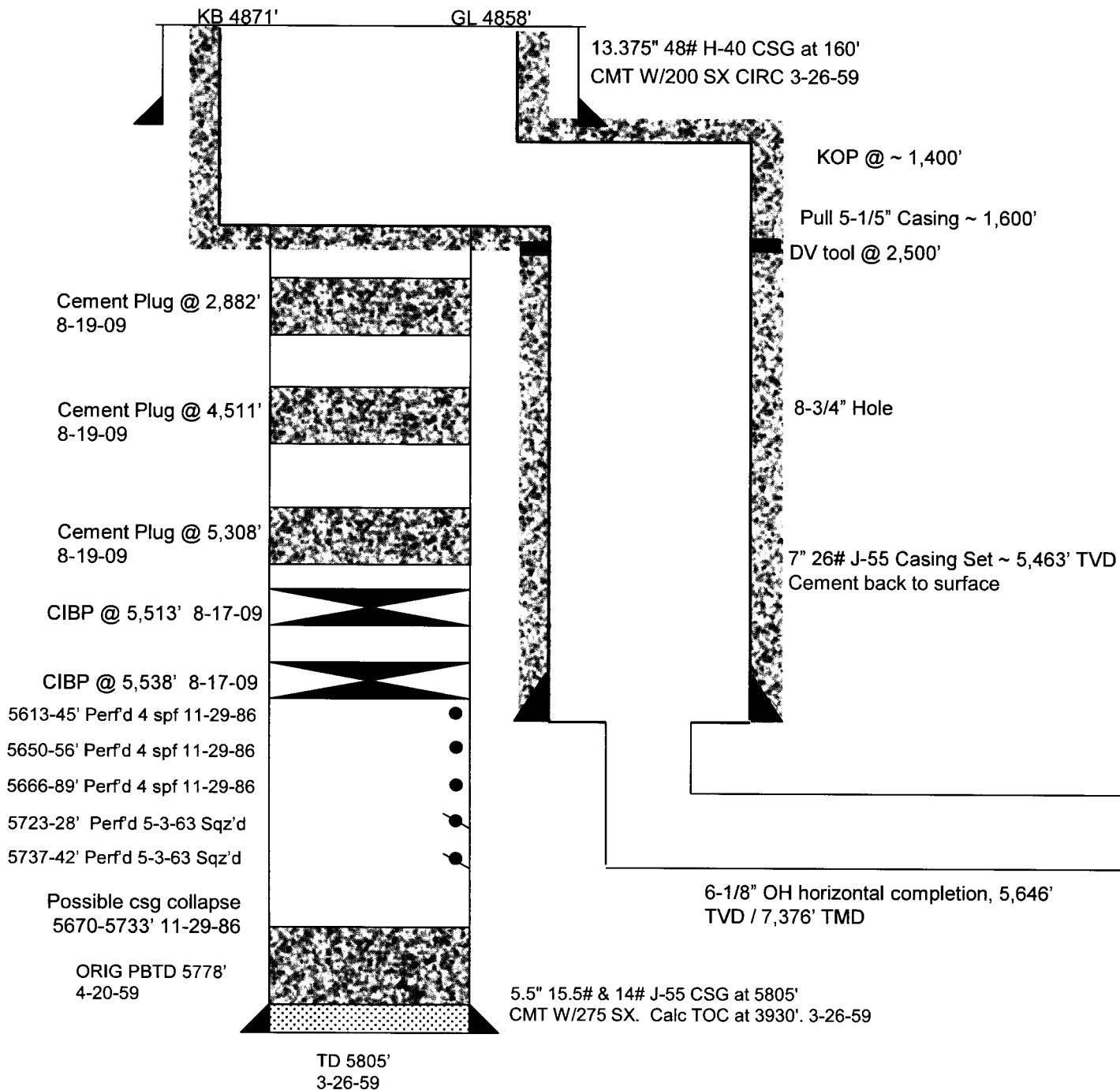
SAN JUAN COUNTY, UTAH

API 43-037-16434

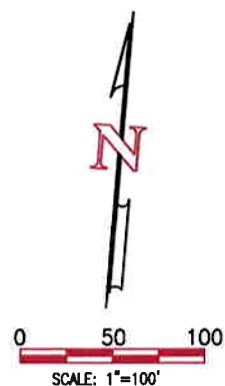


RATHERFORD UNIT #29-43H  
GREATER ANETH FIELD  
1968' FSL & 610' FEL  
SEC 29-T41S-R24E  
SAN JUAN COUNTY, UTAH  
API 43-037-16434

## PROPOSED WELLBORE DIAGRAM

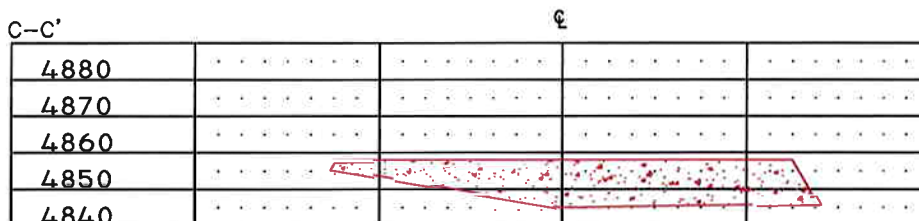
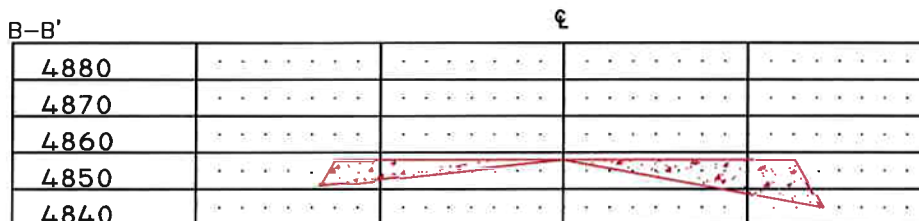
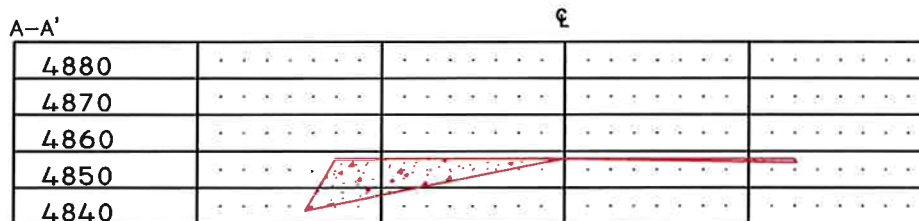
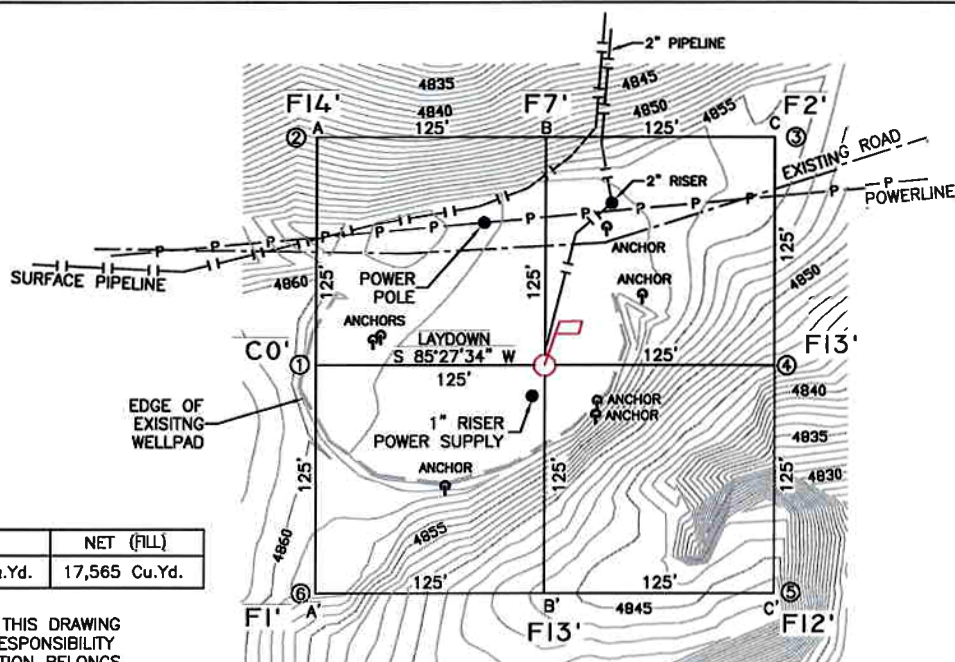


**BEFORE DIGGING  
CALL FOR UTILITY  
LINE LOCATION!**



CUT	FILL	NET (FILL)
195 Cu.Yd.	17,760 Cu.Yd.	17,565 Cu.Yd.

**NOTE:**  
THE EARTH QUANTITIES ON THIS DRAWING  
ARE ESTIMATED AND THE RESPONSIBILITY  
OF UTILIZING THIS INFORMATION BELONGS  
TO THE USER.



### CROSS SECTIONS

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

EXHIBIT 1A

**RESOLUTE**  
NATURAL RESOURCES

LEASE: RATHERFORD UNIT 29-43H

1968' FSL, 610' FEL (SURFACE)

FOOTAGES: 2110' FNL, 1736' FEL (BOTTOM HOLE)

SEC. 29 TWN. 41 S RNG. 24 E S.L.M.

LAT: N 37.1914694° LONG: W 109.2984245° (NAD 83)

ELEVATION: 4858.5

SURVEYED: 09/27/13

REV. DATE:

APP. BY J.A.V.

DRAWN BY: M.B.

DATE DRAWN: 10/02/13

FILE NAME: 10576C01



P.O. BOX 3651  
FARMINGTON, NM 87499  
OFFICE: (505) 334-0408

RECEIVED: Oct. 25, 2013

RECEIVED: Oct. 25, 2013



Sundry Number: 44135 API Well Number: 43037164340000

McLean and Hatherton Water Corp.

Well No	DWP No	WUP # 1996	WUP # 1997	Sec-Twp-Rg	GPS Coordinates	East (1986)	North (1986)	App #	Completed	Comments
McE lmo										
1-PIT-1		95-629	97-223	18-41S-25E		656390	4121700			Abandoned
2	12-0715	95-630	97-201	17-41S-25E	37° 13' 226" N 109° 12' 242" N	656410	4120650	29718, A3777	9/14/01	
3	12-0716	95-631	97-202	17-41S-25E	37° 13' 196" N 109° 12' 187" N	656660	4120480	29718, A3777	10/9/01	
4	12-0717	95-632	97-203	17-41S-25E	37° 13' 166" N 109° 12' 142" N	656660	4120520	29718, A3777	10/17/01	
5	12-0718	95-633	97-204	17-41S-25E	37° 13' 132" N 109° 12' 098" N	656630	4120460	29718, A3777	10/17/01	
6	12-0719	95-634	97-205	17-41S-25E	37° 13' 098" N 109° 12' 053" N	656630	4120400	31023 A-3777	4/20/02	
7	12-0720	95-612	97-206	17-41S-25E	37° 13' 068" N 109° 12' 032" N	656725	4120325	31023 A-3777	4/30/02	
8	12-0721	95-613	97-207	17-41S-25E	37° 13' 023" N 109° 12' 008" N	656800	4120265	31023 A-3777	5/4/02	
9	12-0722	95-614	97-208	17-41S-25E	37° 13' 010" N 109° 11' 932" N	656860	4120250	31023 A-3777	5/8/02	
10	12-0723	95-615	97-209	17-41S-25E	37° 12' 965" N 109° 11' 868" N	656980	4120220	31023 A-3777	5/12/02	
11	12-0724	95-616	97-210	17-41S-25E	37° 12' 902" N 109° 11' 803" N	656960	4120210	29718, 31023	11/28/02	
12	12-0725	95-617	97-211	17-41S-25E	37° 13' 026" N 109° 11' 768" N	656125	4120270	29718, A-3777	12/5/02	Not in Service no pump
13	12-0726	95-618	97-212	18-41S-25E	37° 13' 432" N 109° 12' 415" N	659145	4121010	29718, 31023	12/8/02	
14	12-0727	95-619	97-213	18-41S-25E	37° 13' 436" N 109° 12' 473" N	659045	4121010	A-31023	12/12/02	
15	12-0728	95-620	97-214	17-41S-25E	37° 13' 404" N 109° 12' 365" N	659230	4120850	A-31023	12/26/02	
16	12-0729	95-621	97-215	17-41S-25E	37° 13' 361" N 109° 12' 341" N	659285	4120870	A-31023	1/8/03	
17	12-0730	95-622	97-216	17-41S-25E	37° 13' 312" N 109° 12' 325" N	659285	4120785	A-31023	1/12/03	
18	12-0731	95-623	97-217	17-41S-25E	37° 13' 027" N 109° 12' 894" N	656640	4120270	29718, A3777	4/5/03	
19	12-0732	95-624	97-218	17-41S-25E	37° 13' 002" N 109° 12' 800" N	656825	4120730	29718, A3777	4/10/03	
20	12-0733	95-625	97-219	17-41S-25E	37° 13' 062" N 109° 12' 994" N	659760	4120335	29718, A3777	4/17/03	
21	12-0734	95-626	97-220	17-41S-25E	37° 13' 013" N 109° 12' 805" N	656835	4120240	29718, A3777	4/19/03	
22	12-0735	95-627	97-221	17-41S-25E	37° 13' 090" N 109° 12' 015" N	656750	4120278	A3777, 29718	4/22/03	Community
O-24	12-0736	95-628	97-222	17-41S-25E	37° 13' 475" N 109° 12' 504" N	659815	4120300		3/14/04	former oil well MCU O-24, 13-3/8" surf. 8-5/8" prod. csgs 1200' deep, out of service since 1975, needs P&A

Sundry Number: 44135 API Well Number: 43037164340000

El Estre and Rathenford Aque Wells

Well No	DWP No	WUP # 1996	WUP # 1997	Sec-Twp-Rg	GPS Coordinates		East (1996)	North (1996)	Appl #	Completed	Comments
Rathenford											
1	09-0614	95-496	97-224	5-41S-24E	37° 16.333' N	109° 17.603' W	650740	4124360	32-773	11/21/61	
2	09-0615	95-497	97-225	5-41S-24E	37° 15.330' N	109° 17.560' W	650560	4124360	32-773	11/21/61	
3	09-0616	95-498	97-226	5-41S-24E	37° 15.332' N	109° 17.928' W	650380	4124360	32-733	12/2/61	
4	09-0617	95-499	97-227	5-41S-24E	37° 15.331' N	109° 17.900' W	650470	4124360	32-733	12/2/61	
5	09-0618	95-500	97-228	5-41S-24E	37° 15.330' N	109° 17.835' W	650650	4124360	32-733	12/11/62	
6	09-0619	95-501	97-229	5-41S-24E	37° 15.349' N	109° 17.776' W	650840	4124360	32-733	12/2/62	
7	09-0620	95-502	97-230	5-41S-24E	37° 15.353' N	109° 17.750' W	650900	4124360	32-733	12/15/62	
8	09-0621	95-503	97-231	5-41S-24E	37° 15.355' N	109° 17.720' W	651040	4124360	32-733	12/21/62	
9	09-0622	95-504	97-232	5-41S-24E	37° 15.360' N	109° 17.669' W	651120	4124400	32-733	12/27/62	
10	09-0623	95-504	97-233	5-41S-24E	37° 15.364' N	109° 17.850' W	651205	4124475	32-733	12/2/63	
11	09-0624	95-505	97-234	5-41S-24E	37° 15.365' N	109° 17.627' W	651290	4124430	32-733	1/5/63	
12	09-0625	95-506	97-235	5-41S-24E	37° 15.364' N	109° 17.545' W	651470	4124430	32-733	1/5/63	
13	09-0626	95-507	97-236	5-41S-24E	37° 15.367' N	109° 17.500' W	651560	4124430	32-733	1/16/63	
14	09-0627	95-508	97-237	5-41S-24E	37° 15.369' N	109° 17.464' W	651640	4124430	32-733	2/3/63	
15	09-0628	95-509	97-238	5-41S-24E	37° 15.373' N	109° 17.421' W	651760	4124460	32-733	2/4/63	
16	09-0629	95-510	97-239	5-41S-24E	37° 15.374' N	109° 17.381' W	651840	4124480	32-733	2/6/63	
17	09-0630	95-511	97-240	5-41S-24E	37° 15.368' N	109° 17.680' W	651950	4119030			Water well abandoned 05-06-1996, C.A.S. Company

Summary		35	operated wells								
		2	not prod.	95-528	95-517						
		2	aband.	95-528	95-517						
		1	NTU	95-527							
		40	Total Wells in list in RCMA-65-06, WUP 95-496 to 95-628 & 06-202								

Additional Unlisted Wells at Rathenford			Sec-Twp-Rg	GPS Coordinates		Appl #	Completed	Comments
19			5-41S-24E	37° 15.217' N	109° 16.769' W	32-773	4/22/64	In service
20			5-41S-24E	37° 15.220' N	109° 16.885' W	32-773	4/14/64	In Service
22			5-41S-24E	37° 15.219' N	109° 16.832' W	32-773		Operable, but has power problems
23			5-41S-24E	37° 15.228' N	109° 17.014' W	32-773	4/20/64	Operable, but has power problems
		4	Additional unlisted wells					

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 10/25/2013

API NO. ASSIGNED: 43-037-16434

WELL NAME: RATHERFORD UNIT 29-43H

OPERATOR: RESOLUTE NATURAL ( N2700 )

PHONE NUMBER: 303-573-4886

CONTACT: SHERRY GLASS

PROPOSED LOCATION:

NESE 29 410S 240E

SURFACE: 1968 FSL 0610 FEL

BOTTOM: 2110 FNL 1736 FEL

COUNTY: SAN JUAN

LATITUDE: 37.19137 LONGITUDE: -109.29834

UTM SURF EASTINGS: 651033 NORTHINGS: 4117458

FIELD NAME: GREATER ANETH ( 365 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-603-407

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: DSCR

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. PA002769 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. 12-0736 )

☒ RDCC Review (Y/N)  
(Date: )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

       R649-2-3.

Unit: RATHERFORD

       R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

       R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 152-6

Eff Date: 7-6-1998

Siting: Suspension of Siting

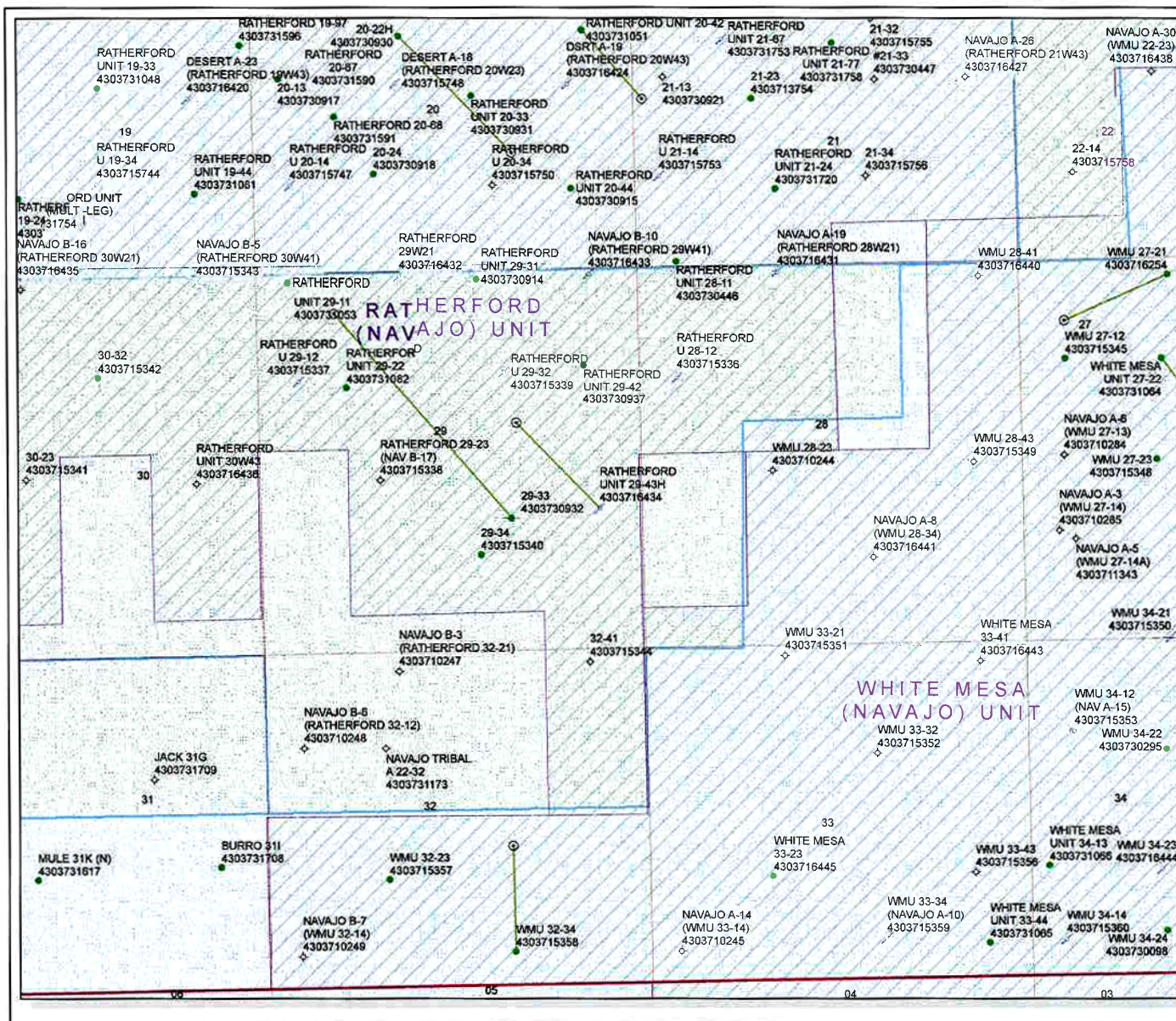
       R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

1- Superior Approval  
2- Horizon





API Number: 4303716434

Well Name: RATHERFORD UNIT 29-43H

Township: T41.0S Range: R24.0E Section: 29 Meridian: S

Operator: RESOLUTE NATURAL RESOURCES

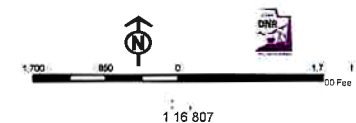
Map Prepared: 11/13/2013  
Map Produced by Diana Mason

#### Wells Query

- APD - Approved Permit
- DRS - Drilled (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PDW - Producing Gas Well
- PDW - Producing Oil Well
- PDW - Shut-in Gas Well
- PDW - Shut-in Oil Well
- PDW - Temp Abandoned
- TW - Test Well
- WW - Water Injection Well
- WSW - Water Supply Well

#### Units

- | STATUS        | Fields     |
|---------------|------------|
| ACTIVE        | Unknown    |
| EXPLORATORY   | ABANDONED  |
| GAS STORAGE   | ACTIVE     |
| NP PP OIL     | COMBINED   |
| NP SECONDARY  | INACTIVE   |
| PI OIL        | STORAGE    |
| PP GAS        | TERMINATED |
| PP GEOTHERMAL |            |
| PP OIL        |            |
| SECONDARY     |            |
| TERM NATED    |            |





GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

November 14, 2013

Resolute Natural Resources  
1675 Broadway, Ste 1950  
Denver, CO 80202

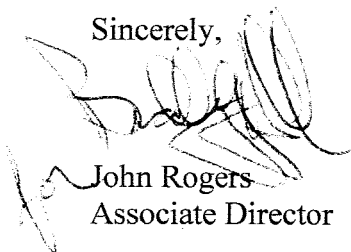
Subject: Ratherford Unit 29-43H Well, Surface Location 1968' FSL, 610' FEL, NE SE, Sec. 29, T. 41 South, R. 24 East, Bottom Location 2110' FNL, 1736' FEL, SW NE, Sec. 29, T. 41 South, R. 24 East, San Juan County, Utah

Ladies and Gentlemen:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause: 152-6. The expected producing formation or pool is the DESERT CREEK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-16434.

Sincerely,



John Rogers  
Associate Director

JR/BGH/js  
Enclosures

cc: San Juan County Assessor  
Bureau of Land Management, Monticello Office

**Operator:** Resolute Natural Resources  
**Well Name & Number** Ratherford Unit 29-43H  
**API Number:** 43-037-16434  
**Lease:** 14-20-603-407

**Surface Location:** NE SE      **Sec. 29**      **T. 41 South**      **R. 24 East**  
**Bottom Location:** SW NE      **Sec. 29**      **T. 41 South**      **R. 24 East**

### **Conditions of Approval**

#### **1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)

OR

Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office  
(801) 733-0983 after office hours

#### **3. Reporting Requirements**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5<sup>th</sup> day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

#### **4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

#### **5. In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.**



API Well Number: 43037164340000

Well Name  
RATHERFORD UNIT 29-43H  
SHL NESESTATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:

12. COUNTY

13. STATE

UTAH

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER \_\_\_\_\_b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR:

CITY

STATE

ZIP

PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED:

15. DATE T.D. REACHED:

16. DATE COMPLETED:

ABANDONED ☐READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD

TVD

19. PLUG BACK T.D.: MD

TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD

PLUG SET:

TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.

WAS WELL CORED?

NO ☐YES ☐

(Submit analysis)

WAS DST RUN?

NO ☐YES ☐

(Submit report)

DIRECTIONAL SURVEY?

NO ☐YES ☐

(Submit copy)

## 24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

## 25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

## 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

## 27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

## 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

## 29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: \_\_\_\_\_

## 30. WELL STATUS:

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

## INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

## INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Upper Ismay	5,463				
Lower Ismay	5,552				
Gothic Shale	5,601				
Desert Creek IA	5,615				
Desert Creek IB	5,663				

## 35. ADDITIONAL REMARKS (Include plugging procedure)

A single lateral was drilled to the NW, ran new injection BHA with new 2-7/8" production tubing. Well put to injection on 12-19-13.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry GlassTITLE Sr Regulatory AnalystSIGNATURE Sherry GlassDATE 3/25/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

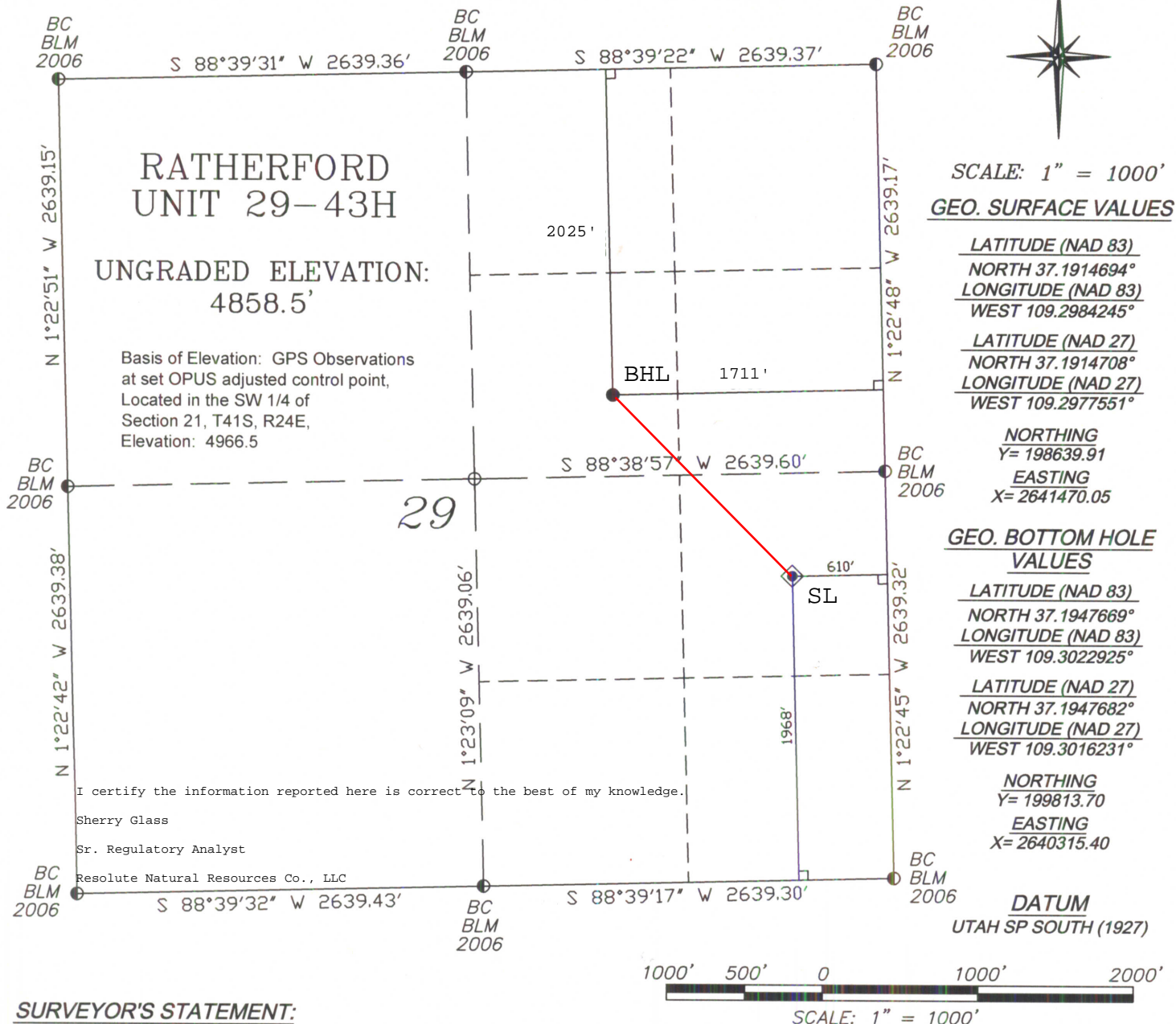
\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**T. 41 S., R. 24 E., S.L.M.**

P.O. BOX 3651  
FARMINGTON, N.M.  
(505) 334-0408

**SCALE: 1" = 1000'**

**JOB No. 10576**

**DATE: 10/02/13**

**PLAT OF PROPOSED WELL LOCATION  
FOR  
RESOLUTE NATURAL RESOURCES COMPANY  
RATHERFORD UNIT 29-43H  
1968' F/SL & 610' F/EL SECTION 29,  
T. 41 S., R. 24 E., SALT LAKE MERIDIAN  
SAN JUAN COUNTY, UTAH**

\*\*\* Mezintel MWD/LWD Software. Ver was [19.00.004 (G)], DB Ver was [2.00.442]  
 \*\*\* Computer was [PDTMWD-HP], Job ID was [2614], Job Name was [1339]  
 \*\*\* Leg Name was [Main Leg], Bit Run # was [2]  
 \*\*\* Well Name = Ratherford Unit 29-43H  
 \*\*\* Mon, Dec 02, 2013 04:19:40 PM \*\*\*

## SURVEY DATABASE REPORT

Date Printed: 2013/12/02 16:19:25

ENDING LEG NAME = Main Leg

Date Start :11/25/13 Job No. :1339  
 MWD Co :Mesa West Directional Drilling Co. :D & J Drilling  
 Customer :Resolute Natural Resources Well Name :Ratherford Unit 29-43H  
 Location :SEC 29-T41S-R24E API/UWI :43-03716434S1  
 Declination :10.30 MagField :0.506  
 Dip Angle :63.50 Vert Sec Dir (deg):319.48  
 KB :4875.00 GL :4858.50  
 DF :16.50

#	SvyDpth	Inc	Azm	N/S	E/W	TVD	VS	DLS	MagF	DipA	Grav	AvPA
000	5441.00	26.6	321.4	198.85	-163.49	5418.69	257.38	0.00	0.000	0.000	0.000	0
001	5482.00	28.8	323.7	213.99	-175.07	5454.99	276.41	5.97	0.000	0.000	1.001	0
002	5513.00	31.2	325.0	226.58	-184.09	5481.83	291.85	8.02	0.000	0.000	1.001	0
003	5545.00	36.8	325.1	241.24	-194.34	5508.35	309.65	17.50	0.000	0.000	1.001	0
004	5576.00	42.6	324.2	257.38	-205.80	5532.20	329.37	18.80	0.000	0.000	1.001	0
005	5606.00	47.8	321.5	274.33	-218.66	5553.33	350.61	18.47	0.000	0.000	1.001	0
006	5637.00	52.8	319.9	292.77	-233.78	5573.13	374.44	16.61	0.000	0.000	1.001	0
007	5669.00	54.6	319.8	312.48	-250.40	5592.07	400.23	5.63	0.000	0.000	1.001	0
008	5700.00	58.1	319.6	332.16	-267.09	5609.24	426.03	11.30	0.000	0.000	1.001	0
009	5730.00	62.3	319.0	351.89	-284.07	5624.15	452.06	14.11	0.000	0.000	1.001	0
010	5762.00	68.2	318.4	373.71	-303.24	5637.54	481.11	18.52	0.000	0.000	1.003	0
011	5793.00	72.0	318.4	395.50	-322.59	5648.09	510.24	12.26	0.000	0.000	1.001	0
012	5825.00	74.7	318.5	418.44	-342.92	5657.26	540.89	8.44	0.000	0.000	1.001	0
013	5856.00	78.4	318.3	440.99	-362.94	5664.47	571.03	11.95	0.000	0.000	1.001	0
014	5888.00	82.9	318.0	464.50	-384.00	5669.67	602.59	14.09	0.000	0.000	1.003	0
015	5918.00	86.6	317.7	486.64	-404.04	5672.41	632.45	12.37	0.000	0.000	1.001	0
016	5949.00	87.8	317.8	509.56	-424.86	5673.92	663.40	3.88	0.000	0.000	1.001	0
017	5981.00	90.0	317.6	533.23	-446.39	5674.54	695.37	6.90	0.000	0.000	1.001	0
018	6012.00	90.8	317.8	556.15	-467.25	5674.32	726.36	2.66	0.000	0.000	1.001	0
019	6043.00	91.9	318.1	579.17	-488.01	5673.59	757.34	3.68	0.000	0.000	1.001	0
020	6075.00	91.3	317.1	602.79	-509.58	5672.70	789.31	3.64	0.000	0.000	1.003	0
021	6106.00	91.5	316.5	625.38	-530.79	5671.94	820.26	2.04	0.000	0.000	1.003	0
022	6138.00	91.8	316.3	648.54	-552.85	5671.02	852.20	1.13	0.000	0.000	1.001	0
023	6167.00	91.7	317.6	669.72	-572.64	5670.13	881.16	4.49	0.000	0.000	1.001	0
024	6197.00	92.1	318.4	692.01	-592.70	5669.14	911.14	2.98	0.000	0.000	1.001	0
025	6229.00	91.7	318.3	715.90	-613.96	5668.08	943.11	1.29	0.000	0.000	1.001	0
026	6260.00	90.6	317.4	738.88	-634.76	5667.46	974.09	4.58	0.000	0.000	1.001	0

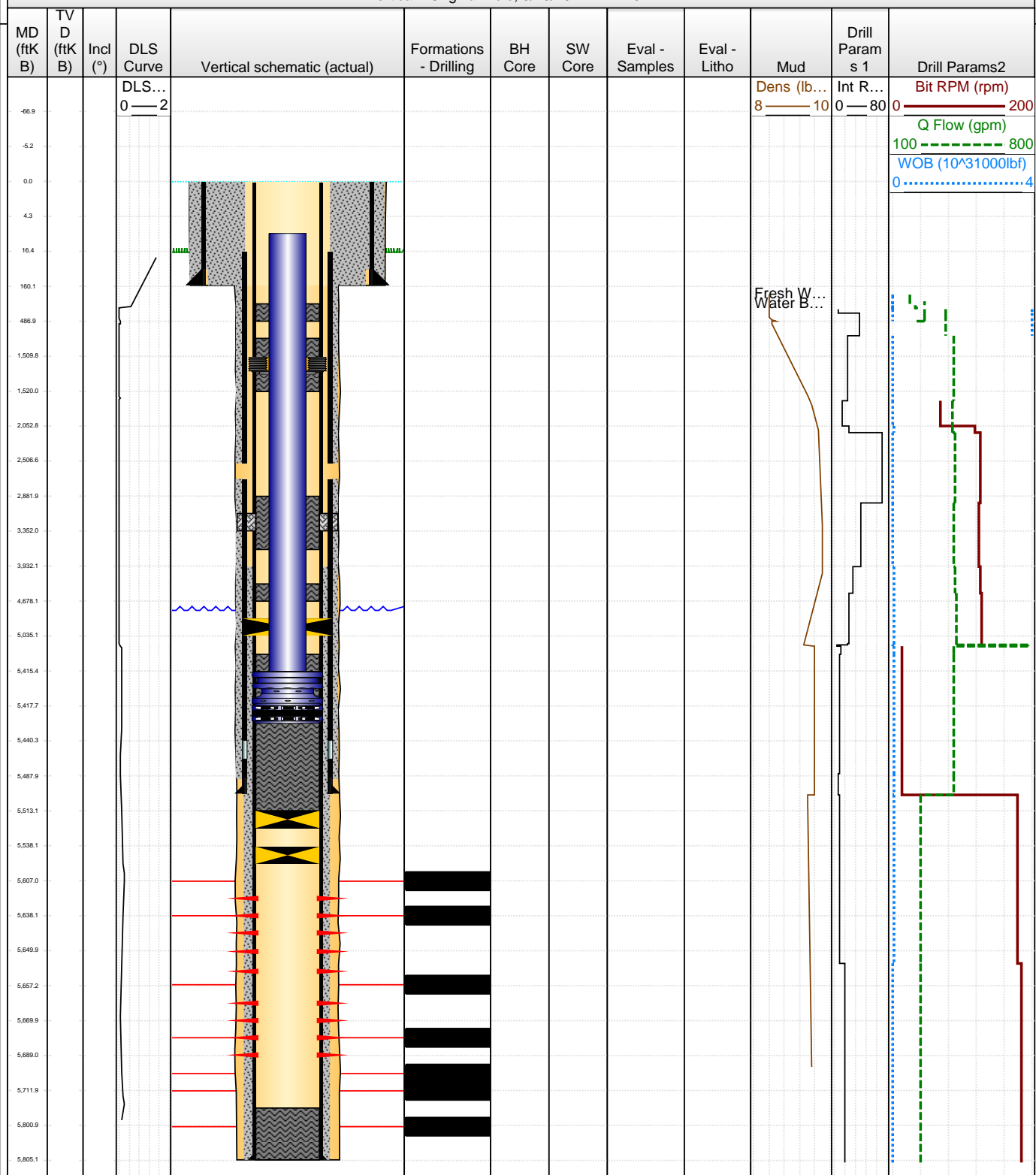
027 6291.00	90.3	316.7	761.57	-655.88	5667.21	1005.06	2.46	0.000	0.000	1.001	0
028 6322.00	91.8	317.3	784.24	-677.02	5666.64	1036.03	5.21	0.000	0.000	1.003	0
029 6353.00	94.1	319.0	807.30	-697.67	5665.05	1066.97	9.22	0.000	0.000	1.003	0
030 6384.00	95.1	318.4	830.51	-718.06	5662.56	1097.87	3.76	0.000	0.000	1.003	0
031 6414.00	94.0	319.0	852.98	-737.80	5660.18	1127.77	4.17	0.000	0.000	1.003	0
032 6445.00	94.1	318.5	876.23	-758.19	5657.99	1158.69	1.64	0.000	0.000	1.001	0
033 6477.00	95.7	318.9	900.18	-779.23	5655.26	1190.57	5.15	0.000	0.000	1.001	0
034 6507.00	95.8	319.1	922.70	-798.81	5652.25	1220.42	0.74	0.000	0.000	1.001	0
035 6539.00	96.1	319.9	946.91	-819.48	5648.94	1252.25	2.66	0.000	0.000	1.001	0
036 6570.00	96.3	320.3	970.55	-839.25	5645.59	1283.06	1.44	0.000	0.000	1.001	0
037 6601.00	94.6	320.0	994.24	-859.03	5642.65	1313.92	5.57	0.000	0.000	1.001	0
038 6632.00	95.0	320.5	1017.99	-878.78	5640.05	1344.81	2.06	0.000	0.000	1.001	0
039 6664.00	94.6	320.8	1042.65	-899.00	5637.37	1376.69	1.56	0.000	0.000	1.003	0
040 6695.00	93.8	320.5	1066.56	-918.60	5635.10	1407.60	2.76	0.000	0.000	1.003	0
041 6726.00	93.2	320.1	1090.36	-938.37	5633.21	1438.54	2.32	0.000	0.000	1.001	0
042 6757.00	94.2	320.1	1114.09	-958.21	5631.21	1469.47	3.23	0.000	0.000	1.001	0
043 6788.00	94.2	319.9	1137.78	-978.08	5628.94	1500.39	0.64	0.000	0.000	1.001	0
044 6820.00	94.2	320.1	1162.23	-998.60	5626.60	1532.30	0.62	0.000	0.000	1.001	0
045 6851.00	93.9	320.1	1185.95	-1018.43	5624.41	1563.22	0.97	0.000	0.000	1.001	0
046 6882.00	93.5	320.0	1209.66	-1038.29	5622.41	1594.16	1.33	0.000	0.000	1.001	0
047 6913.00	93.3	319.9	1233.35	-1058.21	5620.57	1625.10	0.72	0.000	0.000	1.001	0
048 6944.00	93.6	319.9	1257.02	-1078.14	5618.70	1656.04	0.97	0.000	0.000	1.001	0
049 6980.00	92.9	320.4	1284.61	-1101.17	5616.66	1691.98	2.39	0.000	0.000	1.001	0



**RESOLUTE**  
NATURAL RESOURCES**SCHEMATIC****Well Name: Ratherford U 2943**

Well Name Ratherford U 2943	API Number 4303716434	Qtr/Qtr C NE SE	Section 29	TWN 41S	Range 24E	Regulatory Spud Date 3/26/1959	Field Name Ratherford	State/Province Utah
Original KB Elevation (ft) 4,875.00		KB-Ground Distance (ft) 16.50		Total Depth (ftKB) 5,805.0		PBTD (All) (ftKB)		

Vertical - Original Hole, 3/25/2014 11:14:04 AM



## Cement Summary

Well Name: Ratherford U 2943

API Number 4303716434	Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50	Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50	Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959	

**Sidetrack 1**

Wellbore Name Sidetrack 1	Profile Type Directional	Kick Off Depth (ftKB) 309.0	Vertical Section Direction (°)
Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Production	8 3/4	309.0	

**Original Hole**

Wellbore Name Original Hole	Profile Type Vertical	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	15	0.0	160.0
Production	7 7/8	160.0	5,805.0

**<typ>, <make> on <dtmstart>**

Type			Install Date		
Des	Make	Model	WP (psi)	Service	SN

**Surface Casing, 160.0ftKB**

Casing Description Surface Casing	Wellbore Original Hole	Run Date/Time 3/26/1959	Set Depth (ftKB) 160.0	Stick Up (ftKB) 0.0	Set Tension (kips)
Centralizers	Scratchers				

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
	Casing Joint(s)	13 3/8	12.715	48.00	H-40		Unknow n	158.00	0.0	158.0
	Float Shoe	13 3/8			Unknow n		Unknow n	2.00	158.0	160.0

**Intermediate, 5,488.9ftKB**

Casing Description Intermediate	Wellbore Sidetrack 1	Run Date/Time 11/23/2013	Set Depth (ftKB) 5,488.9	Stick Up (ftKB) -16.5	Set Tension (kips)
Centralizers 37	Scratchers				

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
44	Casing Joints	7	6.276	26.00	J-55		LT&C	1,992.09	16.5	2,008.6
1	Casing Joints	7	6.276	26.00	K-55		LT&C	44.14	2,008.6	2,052.8
10	Casing Joints	7	6.276	26.00	J-55		LT&C	453.94	2,052.8	2,506.7
1	Stage Tool						LT&C	3.00	2,506.7	2,509.7
63	Casing Joints	7	6.276	26.00	J-55		LT&C	2,930.53	2,509.7	5,440.2
1	Float Collar	7	6.276	26.00	J-55		LT&C	1.00	5,440.2	5,441.2
1	Casing Joints	7	6.276	26.00	J-55		LT&C	46.67	5,441.2	5,487.9
1	Float Shoe	7	6.276	26.00	J-55		LT&C	1.00	5,487.9	5,488.9

**Production Casing, 5,805.0ftKB**

Casing Description Production Casing	Wellbore Original Hole	Run Date/Time 3/26/1959	Set Depth (ftKB) 5,805.0	Stick Up (ftKB) 0.0	Set Tension (kips)
Centralizers	Scratchers				

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
	Casing Joints	5 1/2	4.950	15.50	J-55		Unknow n	5,803.00	0.0	5,803.0
	Casing Joints	5 1/2	5.012	14.00	J-55		Unknow n	2.00	5,803.0	5,805.0

**Cement Plug, Plug, 11/10/2013 16:00**

Cementing Start Date 11/10/2013	Cementing End Date 11/10/2013	Wellbore Original Hole
Evaluation Method	Cement Evaluation Results	

 Comment  
 130 SKS 15.8# 1.15 yield, 5.0 Gal/Sk, Set at btm depth of 487'.

**Cement Summary****Well Name: Ratherford U 2943**

API Number 4303716434	Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50	Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50	Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959	

**1, 237.0-487.0ftKB**

Top Depth (ftKB) 237.0	Bottom Depth (ftKB) 487.0	Full Return? No	Vol Cement Ret (...) 22.5	Top Plug? No	Bottom Plug? No
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 5	Avg Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 0.0	Plug Bump Pressure (psi)	
Pipe Reciprocated? No	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? No	Pipe RPM (rpm)	
Tagged Depth (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time	

**Displacement**

Fluid Type Displacement	Fluid Description	Amount (sacks) 130	Class A	Volume Pumped (bbl) 22.5
Estimated Top (ftKB) 237.0	Estimated Bottom Depth (ftKB) 487.0	Percent Excess Pumped (%) 20.0	Yield (ft³/sack) 1.15	Mix H2O Ratio (gal/sack) 5.00
Free Water (%)	Density (lb/gal) 15.80	Plastic Viscosity (Pa•s)	Thickening Time (hr)	1st Compressive Strength (psi)

**Cement Fluid Additives**

Add	Type	Conc

## Cement Summary

Well Name: Ratherford U 2943

API Number 4303716434	Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50	Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50	Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959	

**Sidetrack 1**

Wellbore Name Sidetrack 1	Profile Type Directional	Kick Off Depth (ftKB) 309.0	Vertical Section Direction (°)
Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Production	8 3/4	309.0	

**Original Hole**

Wellbore Name Original Hole	Profile Type Vertical	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	15	0.0	160.0
Production	7 7/8	160.0	5,805.0

**<typ>, <make> on <dtmstart>**

Type			Install Date		
Des	Make	Model	WP (psi)	Service	SN

**Surface Casing, 160.0ftKB**

Casing Description Surface Casing	Wellbore Original Hole	Run Date/Time 3/26/1959	Set Depth (ftKB) 160.0	Stick Up (ftKB) 0.0	Set Tension (kips)
Centralizers	Scratchers				

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
	Casing Joint(s)	13 3/8	12.715	48.00	H-40		Unknow n	158.00	0.0	158.0
	Float Shoe	13 3/8			Unknow n		Unknow n	2.00	158.0	160.0

**Intermediate, 5,488.9ftKB**

Casing Description Intermediate	Wellbore Sidetrack 1	Run Date/Time 11/23/2013	Set Depth (ftKB) 5,488.9	Stick Up (ftKB) -16.5	Set Tension (kips)
Centralizers 37	Scratchers				

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
44	Casing Joints	7	6.276	26.00	J-55		LT&C	1,992.09	16.5	2,008.6
1	Casing Joints	7	6.276	26.00	K-55		LT&C	44.14	2,008.6	2,052.8
10	Casing Joints	7	6.276	26.00	J-55		LT&C	453.94	2,052.8	2,506.7
1	Stage Tool						LT&C	3.00	2,506.7	2,509.7
63	Casing Joints	7	6.276	26.00	J-55		LT&C	2,930.53	2,509.7	5,440.2
1	Float Collar	7	6.276	26.00	J-55		LT&C	1.00	5,440.2	5,441.2
1	Casing Joints	7	6.276	26.00	J-55		LT&C	46.67	5,441.2	5,487.9
1	Float Shoe	7	6.276	26.00	J-55		LT&C	1.00	5,487.9	5,488.9

**Production Casing, 5,805.0ftKB**

Casing Description Production Casing	Wellbore Original Hole	Run Date/Time 3/26/1959	Set Depth (ftKB) 5,805.0	Stick Up (ftKB) 0.0	Set Tension (kips)
Centralizers	Scratchers				

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
	Casing Joints	5 1/2	4.950	15.50	J-55		Unknow n	5,803.00	0.0	5,803.0
	Casing Joints	5 1/2	5.012	14.00	J-55		Unknow n	2.00	5,803.0	5,805.0

**Intermediate Casing Cement, Casing, 11/23/2013 15:30**

Cementing Start Date 11/23/2013	Cementing End Date 11/24/2013	Wellbore Sidetrack 1
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Evaluation Method Returns to Surface	Cement Evaluation Results Good Cement job SUCCESS
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Comment  
Cement 1st stage 7" casing, Job as follows: Test lines Pump 20 BBLs of mud flush, 5 bbl of fresh water, 86.8 bbl's 250 SKS 1.95 yield of lead cement, 20.5 bbl's 100SKS 1.15 yield of tail cement, Drop plug, displace W/100 bbl's mud, Displace W/30 bbl's of fresh water, displace W/88 bbl's of mud, We got 1 BBL cement returns, Plug did bump @ 560 PSI Floats held.

2nd stage cement job 7" casing, Job as follows Test lines, Pump 20 bbl's mud flush, 5 bbl's fresh water, 118 bbl's 340 sks 1.95 yield of lead cement, 20.5 bbl 100 sks 1.15 of tail cement, Drop plug, displace W/95.7 bbl's fresh water, bump plug 650 psi floats did hold, 8 bbl's cement returns.

## Cement Summary

Well Name: Ratherford U 2943

API Number 4303716434	Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50	Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50	Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959	

**1, 2,500.0-5,488.0ftKB**

Top Depth (ftKB) 2,500.0	Bottom Depth (ftKB) 5,488.0	Full Return? Yes	Vol Cement Ret (...) 1.0	Top Plug? No	Bottom Plug? Yes
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 2	Avg Pump Rate (bbl/min) 4	Final Pump Pressure (psi) 550.0	Plug Bump Pressure (psi) 550.0	
Pipe Reciprocated? No	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? No	Pipe RPM (rpm)	
Tagged Depth (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time	

**Lead**

Fluid Type Lead	Fluid Description 86.6 bbls class G cmt	Amount (sacks) 250	Class G	Volume Pumped (bbl) 86.6
Estimated Top (ftKB) 2,506.7	Estimated Bottom Depth (ftKB) 4,792.0	Percent Excess Pumped (%) 40.0	Yield (ft³/sack) 1.95	Mix H2O Ratio (gal/sack) 10.04
Free Water (%)	Density (lb/gal) 12.30	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (psi)

**Cement Fluid Additives**

Add	Type	Conc
KOL-SEAL	BULK	5.0
HR-5	HR-5	0.3
POLY-E-FLAKE	POLY-E-FLAKE	0.125

**Tail**

Fluid Type Tail	Fluid Description	Amount (sacks) 100	Class G	Volume Pumped (bbl) 20.5
Estimated Top (ftKB) 4,792.0	Estimated Bottom Depth (ftKB) 5,491.0	Percent Excess Pumped (%)	Yield (ft³/sack) 1.15	Mix H2O Ratio (gal/sack) 4.96
Free Water (%)	Density (lb/gal) 15.80	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (psi)

**Cement Fluid Additives**

Add	Type	Conc
Halad (R)-9	Halad (R)-9	0.1
POLY-E-FLAKE	POLY-E-FLAKE	0.125

**2, 0.0-5,488.0ftKB**

Top Depth (ftKB) 0.0	Bottom Depth (ftKB) 5,488.0	Full Return? Yes	Vol Cement Ret (...) 8.0	Top Plug? No	Bottom Plug? Yes
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 2	Avg Pump Rate (bbl/min) 4	Final Pump Pressure (psi) 650.0	Plug Bump Pressure (psi) 650.0	
Pipe Reciprocated? No	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? No	Pipe RPM (rpm)	
Tagged Depth (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date/Time	

**Lead**

Fluid Type Lead	Fluid Description	Amount (sacks) 340	Class G	Volume Pumped (bbl) 118.0
Estimated Top (ftKB) 16.5	Estimated Bottom Depth (ftKB) 1,741.0	Percent Excess Pumped (%) 40.0	Yield (ft³/sack) 1.95	Mix H2O Ratio (gal/sack) 10.17
Free Water (%)	Density (lb/gal) 12.30	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (psi)

**Cement Fluid Additives**

Add	Type	Conc
KOL-SEAL	BULK	5.0
CALCIUM CHORIDE	HI TEST PELLET	2.0
POLY-E-FLAKE	POLY-E-FLAKE	0.125

**Tail**

Fluid Type Tail	Fluid Description	Amount (sacks) 100	Class G	Volume Pumped (bbl) 20.5
Estimated Top (ftKB) 1,741.0	Estimated Bottom Depth (ftKB) 2,506.7	Percent Excess Pumped (%)	Yield (ft³/sack) 1.15	Mix H2O Ratio (gal/sack) 4.96
Free Water (%)	Density (lb/gal) 15.80	Plastic Viscosity (Pa*s)	Thickening Time (hr)	1st Compressive Strength (psi)

**Cement Fluid Additives**

Add	Type	Conc
Halad (R)-9	Halad (R)-9	0.1

# Resolute

Well Name: Ratherford U 2943

API Number 4303716434	Section 29	Qtr/Qtr C NE SE	Township 41S	Range 24E	Block	Reg Spud Dt/Tm 3/26/1959 00:00	Field Name Ratherford	State/Province Utah	Working Interest (%) 58.97
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Vertical - Original Hole, 1/29/2014 3:00:00 PM

Directional schematic (actual)

Could not draw track.  
Insufficient survey data to draw the directional schematic.

Tubing							
Tubing Description	Set Depth (ftKB)	Run Date	Pull Date				
Tubing - Injection/ Duoline Tbg 2nd run	5,425.0	1/29/2014					
Comment Tbg Re Run Duoline 2 7/8"							
Item Des	Icon	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing Hanger	Tubing hanger			0.85	3.5	4.4	
Tubing Pup Joint	Tubing (grey)			4.00	4.4	8.4	
Tubing Douline	Tubing (blue)	2 7/8	J-55	5,406.86	8.4	5,415.3	
On-Off Tool	On-off tool 1	5 1/2		1.70	5,415.3	5,417.0	
Cross Over	Swedge - enlarging	5 1/2		0.60	5,417.0	5,417.6	
Packer	Packer 1	5 1/2		7.45	5,417.6	5,425.0	
Rod Strings							
Rod Description	Set Depth (ftKB)	Run Date	Pull Date				
Comment							
Item Des	Icon	OD (in)	Grade	Len (ft)	Max Tensile (1000lbf)	Top (ftKB)	Btm (ftKB)
Other Strings							
String Description	Run Date	Set Depth (ftKB)					
Other In Hole							
Description Packer	Icon Packer 1	Bottom Depth (ftKB) 5,300.0	Run Date 9/10/2007				
Description CIBP	Icon Casing bridge plug	Bottom Depth (ftKB) 5,543.0	Run Date 8/14/2009				
Description CIBP	Icon Casing bridge plug	Bottom Depth (ftKB) 5,518.0	Run Date 8/17/2009				
Description Cement Retainer	Icon Cement retainer	Bottom Depth (ftKB) 1,515.0	Run Date 12/28/2011				
Description Bridge Plug - Temporary	Icon Bridge plug - retrievable	Bottom Depth (ftKB) 5,035.0	Run Date 12/3/2013				

## Daily Activity Summary

Well Name: Ratherford U 2943

API Number 4303716434	Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50	Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50		Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959
Job Category Drilling			Primary Job Type Drilling - re-entry			
Start Date 10/28/2013			End Date			

Objective To mill 5-1/2" casing and pull to ~ 1,600'. Run new 7" 26# J-55 casing, then drill 6-1/8" OH production section.			
Contractor D&J Drilling	Rig Number 1	Rig on Report Date 10/31/2013	Rig off report date 12/5/2013
Contractor TOPPS	Rig Number 1	Rig on Report Date 12/5/2013	Rig off report date
Contractor Key	Rig Number 27	Rig on Report Date 1/24/2014	Rig off report date 1/30/2014
Report Number	Start Date	End Date	Summary
1	10/25/2013	10/25/2013	Cut flowline to re-route at 29W43.
2	10/25/2013	10/25/2013	Dig out flowline, blind off 2 1/2" coated line. Move flowline off location. Build location and haul equipment to location.
3	10/26/2013	10/26/2013	Cur and weld flowline tie end at 29W43
4	10/28/2013	10/28/2013	Lansing prep location - WSI ID well
5	10/29/2013	10/29/2013	RD tbg spool, DS head. Load pinch hole through 13.375" csg. Displace oil/slug from Braden. Cut windows on 13.375" pipe, remove csg head. Dig 5' hole around wellhead. Welder cut 6' of the 13.375" csg/head to height and weld on C22 13-5/8" 3M x 13-3/8" SOW csg head (4" below ground level, Dee Giles request). Test weld to 1000 psi (w/N2). Cap well with work spool and original tbg head. Secure well, SDFN.
6	10/31/2013	11/1/2013	Rig Move, Rig up, NU.
7	11/1/2013	11/2/2013	NU, rig up. Pressure test BOPE. MU 5-1/2" spear assembly. Rig up wireline, free point 5-1/2" casing. Chemical cut @ 203'. Tried to spear out of hole. Chemical cut casing @ 191'. Pulled out of hole, MU 6-1/4" mill. TIH, mill 5-1/2" caing.
8	11/2/2013	11/3/2013	TOOH Lay down Spear, P/U 5-1/2" mill, TIH, Mill casing, TOOH Lay down Mill, P/U spear, TIH, TOOH, Lay down spear, Wait on wash over pipe, P/U wash over pipe, TIH, Wash over F/195' T/224', TOOH Lay down wash over pipe, P/U Spear, TIH, TOOH Lay down Spear, P/U New 6-1/4" Mill, TIH, Mill F/195' T/202', TOOH Lay down Mill, M/U Wash over pipe, TIH, Wash over F/224' T/235', TOOH lay down wash over pipe, Wait on tools.
9	11/3/2013	11/4/2013	Wait on Tools, Rig Service, TIH, Mill F/204' T/248', TOOH, Wait on Impressions block, M/U Impression block, TIH,
10	11/4/2013	11/5/2013	W/O tools, TIH W/ 8 3/4" flat shoe w/skirted 7 1/8" concave mill, Wash over fish, Mill 5 1/2" casing F/207' - T/224', TOOH, lay L/D 6 jts 3 1/2" HWDP break out 8 3/4" flat shoe
11	11/5/2013	11/6/2013	Finish TOOH L/D 6 jts HWDP, TIH w/4 jts 8 3/4" wash over pipe, Wash over fish F/257' - T/260', TOOH L/D wash over pipe, TIH w/ pilot mill, Mill 5 1/2" csg F/224' - T/259', TOOH, TIH w/8 3/4" concave mill, Ream F/217' - T/259', Mill csg stump & junk on bottom F/256' - T/261', TOOH, Rig service, TIH w/6 1/4" pilot mill, Mill 5 1/2" csg F/261' - T/266'
12	11/6/2013	11/7/2013	Mill 5 1/2" csg w/6 1/4" pilot mill F/266' - T/315'. Trouble shoot down-hole problem. It has been determined that we milled out the side of the fish. POOH, find top of fish @ 261'. TOOH, PU 7 1/8" mill w/8 3/4" skirt shoe. TIH tag fish @ 261', mill fish F/261' - T/275'. TOOH LD junk mill. TIH w/6 1/4" pilot mill w/7 3/8" skirt, mill 5 1/2" csg F/275' - T/286'.
13	11/7/2013	11/8/2013	Mill to 299', TOOH, P/U 4 3/4" DC's, TIH w/pilot mill, Mill F/299' - T/316', TOOH, TIH w/skirted 6 1/4" pilot mill, Mill F/316' - T/390'
14	11/8/2013	11/9/2013	Mill 5 1/2" csg w/6 1/4" pilot mill, 7 7/8" wavey bottom skirt, F/390' - T/462', Circulate pump sweep, TOOH, LD skirt & mill, P/U rerun 6 1/4" pilot mill, 7 7/8" skirt, TIH tag @ 395', Wash & ream to fish top at 462', Mill F/462' - T/476', Seeing pump pressure increase when sitting on bottom while milling, TOOH L/D skirt and mill, Skirt showing signs of wear on bottom, TIH w/pilot mill no skirt, P/U swivel Tag @ 451', Break circulation pump pressure good 40 psi @ 192 gal/min. , Make swivel connection pump pressure up to 519 psi @ 209 gal/min, TOOH f/plugged mill.
15	11/9/2013	11/10/2013	TOOH, TIH, Mill 5-1/2" Casing F/462' T/487'
16	11/10/2013	11/11/2013	Mill, TOOH, TIH, Pump Cement kick off plug, TOOH, WOC
17	11/11/2013	11/12/2013	WOC, MU directional tools, TIH. Drlg 8-3/4" intermediate hole section. Time drlg, MWD surveys.
18	11/12/2013	11/13/2013	Drlg 8-3/4" intermediate hole section. MWD surveys. Rig service.
19	11/13/2013	11/14/2013	Drlg 8-3/4" Intermediate hole section. MWD surveys. Rig Service.
20	11/14/2013	11/15/2013	Drlg 8-3/4" Intermediate hole section, F/1775' T/1811', service rig. Drlg 8-3/4" Intermediate hole section, F/1811' T/2058'.
21	11/15/2013	11/16/2013	DRLG 8-3/4" Intermediate hole section F/2058' - T/2216', Circulate pump sweeps, TOOH, L/D bit & motor, P/U new PDC bit & motor, TIH T/2112', Wash & ream F/2112' - T/2216', DRLG 8-3/4" Intermediate hole section F/2216' - T/2972'
22	11/16/2013	11/17/2013	DRLG 8-3/4" Intermediate hole section, SlideF/2972' T/2982', Rotate F/2982' T/3095', SlideF/3095' T/3157', Rotate F/3157' T/3934'.

## Daily Activity Summary

Well Name: Ratherford U 2943

API Number 4303716434		Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50		Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50		Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959
Report Number	Start Date	End Date	Summary				
23	11/17/2013	11/18/2013	Drig 8-3/4" intermediate hole section, F/3934' T/4599'. Note: Foaming problems with mud after PDS was added. Running centrifuge and mud cleaner constantly, MW holding @ 9.6#.				
24	11/18/2013	11/19/2013	Drig 8-3/4" intermediate hole section, rotate F/4599' T/5129'. Not seeing any flow and no drag or excessive torque, hole looks good.				
25	11/19/2013	11/20/2013	Drig 8-3/4" intermediate hole section F/5129' T/5169'. TOO H, MU BHA 2.38 deg motor and new 8-3/4" PDC bit. TIH, sliding and 10 deg/100', F/5169' T/5180'. Circulate condition hole.				
26	11/20/2013	11/21/2013	TOOH, M/U 2.12 Deg Motor & 8-3/4" Tri-Cone Bit, Cut 60' of Drill Line, TIH, DLG 8-3/4" Intermediate Hole section sliding & Rotating F/5180' T/5300'.				
27	11/21/2013	11/22/2013	DLG 8-3/4" Intermediate hole section sliding & rotating F/5300 T/5479'.				
28	11/22/2013	11/23/2013	DLG 8-3/4" Intermediate Hole section sliding F/5479' T/5491', Circulate condition hole, TOO H, TIH, Clean out.				
29	11/23/2013	11/24/2013	TOOH, Run 26# J55 7" casing Set @ 5488'. Circulate, Cement 7" Intermediate casing. Nipple down 11" 3M BOPE, Nipple up 7" casing hanger.				
30	11/24/2013	11/25/2013	NU 7 1/16" BOPE, pressure test, XO liners and swabs in both pumps. Install rotating head and hook up flowline, LD kelly and swivel.				
31	11/25/2013	11/26/2013	PU and RU power swivel. Lay out and strap 3 1/2" DP & HWDP. PU 3 1/2" BHA and drill pipe. Drl stage tool, pressure test stage tool and csg. PU 3 1/2" DP, drl shoe track, TOO H. PU directional drl assembly. TIH w/1.5 deg motor.				
32	11/26/2013	11/27/2013	Finish TIH, P/U swivel, Circulate, Drl float shoe, Drig F/5491' - T/5654'				
33	11/27/2013	11/28/2013	Drig F/5654' - T/5679', Service rig, Drig F/5679' - T/5947' Note; Flow check @ 5772' & 5867' both checks flowing @ 14 bbls/hr, Raise mud wt F/9.4# - T/10#, still flowing @ 10# MW, Currently raising MW T/10.5#				
34	11/28/2013	11/29/2013	Drig, F/5947' - T/6023', circulate and flow check. Well flowing @ 11.58 bbls/hr w/11# MW. Drig F/6023' - T/6132'. Work on power swivel unit (Hydraulic leak). Drig F/6132' - T/6148', flow check. Well flowing @ 6.39 bbls/hr w/11.7# MW, Drig F/6148' - T/6186'. Flow check, well flowing @ 6.39 bbls/hr w/11.7# MW. Drig F/6148' - T/6186', circulate for trip. POOH to 7" csg shoe, flow check. Well flowing @ 9.52 bbls/hr w/12# MW. Shut in well, pressure built to 620 psi. in 3 hrs and still building.				
35	11/29/2013	11/30/2013	TOOH, top kill, MU 6-1/8" PDC bit, 1.83 deg motor, TIH. Test motor, drig 6-1/8" hole section, sliding and rotating F/6186' T/6250'. Last Survey 6197' MD INCL 92.1 AZ 318.4				
36	11/30/2013	12/1/2013	Drig 6-1/8" hole section, sliding and rotating F/6250' T/6454'. Rig Service. Last Survey 6384' MD INCL 95.1 AZ 318.4				
37	12/1/2013	12/2/2013	Drig 6-1/8" hole section, sliding and rotating F/6454' T/6847', rig service.				
38	12/2/2013	12/3/2013	Drig 6-1/8" hole section, sliding and rotating F/6847' T/7022', rig service. Circulate condition hole. Shut in, psi reading 750. Pump top kill mud.				
39	12/3/2013	12/4/2013	TOOH, TIH w/wireline RBP, TIH, TOO H, ND RD.				
40	12/4/2013	12/5/2013	Clean mud tanks, lay over and wash out 3 frac tanks, load out rental equipment & send to town. Rig down and prep to move rig to town. Rig released @ 06:00 on 12-5-13				
41	12/5/2013	12/6/2013	Load out equipment, Move D&J #1 to town				
42	12/12/2013	12/12/2013	road rig to location spot in jsa & safety mtg LO/TO location spot in RU WSU NU BOP				
43	12/13/2013	12/13/2013	Spot in 2 7/8" work string trailer, PU Bakers on/off retrieving head counted & tally PU 70 jts psi BOP 300 psi on low side 1000 # psi on side tested released psi continue on picking tbg PU total of 145 jts ( 4,690' ) 2 7/8 work string TOO H stand back 10 stands putting EOT @ 4,038				
44	12/16/2013	12/16/2013	TIH 10 stands back in from derrick. PU 10 jts off trailer, install TIW. Hook up hose, spot trucks. Pump and circ 230 bbls 15# mud, latch and release Baker RBP. TOO H, stand tbg. LD RBP, Tefteller hauled off BHP pressure bomb. PU Weatherford's 7" AS1X pkr with plug in place. TIH w/tbg from derrick. PU 11 jts off trailer with 16' sub,s put pkr @ 5,425'.				
45	12/17/2013	12/17/2013	Pump and circ 240 bbls pkr fluid. Circ clean, hauled all mud back to mud plant. Psi csg to 1000 psi, tested good. Gained 60 psi in 30 mins, good solid test. Release psi, J off. TOO H, LD total 166 jts and 16" subs, 2 7/8" work string on trailer. Spot in tbg trailer, set tbg torque. PU new on/off retrieving head. Counted tally, PU 37 jts of 2 7/8" Duoline tbg.				
46	12/18/2013	12/18/2013	PU 2 7/8 duoline tbg off trailer total tbg hanger ( TC1A - EN With 2 1/2 BPV ) , landing jt, 4' sub, 166 jts, 2 7/8 X 2 3/8 pin XO, 7" X 2 1/2" T-2 on /off tool w/ 1.81 F nipple, is @ 5,419.32 KB, 2 3/8 X 2 7/8 XO, 7" X 2 1/2 AS1X packer is @ 5,427.37 KB, 2 7/8 box X 2 3/8 pin XO, 2 3/8 X 1.78 R profile nipple, and 2 3/8 wire line re entry guide is @ 5,429.37 KB, packer is with 15 K compression RD floor tbg tongs, NU BOP RU new well tree, psi tested to 2000 # psi 15 tested good, psi tested csg up to 1050 psi psi good release psi.				



## Daily Activity Summary

Well Name: Ratherford U 2943

API Number 4303716434		Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50		Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50		Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959
Report Number	Start Date	End Date	Summary				
47	12/19/2013	12/19/2013	PSI tested tbg to 2000# psi - tested good, release psi after 15 mins. Spot in Tefteller, JSA and safety mtg. RU wireline, PU tools, RIH. Put 1650# on lubricator, puncture disc. Psi went up to 1800# psi. POH, PU retrieving tools. RIH, recover 1.81 plug. POH, LD tools. RD MO flow back. RD WSU, MO and road rig to next location. Returns had mud and dirty water. In 10 mins, water was coming out clean; 1 hour - had little oil on it, 2 hours - bottle was full of oil. Shut in well, flow back total of 80 bbls. Well check, NNEPA showed up, JSA. RU, performed MIT and it passed. Chart and witnessed by Jean Bia.				
48	1/22/2014	1/22/2014	Tefteller RIH, set 1.78 plug @ 5429'. Bleed down tbg psi, csg psi. Bleed down with tbg.				
49	1/23/2014	1/23/2014	Move in Bluejet, RIH to 5426', Audio log to surface, PSI test well head w/ WSI, no leak.				
50	1/24/2014	1/24/2014	Rig move to location.				
51	1/25/2014	1/25/2014					
52	1/27/2014	1/27/2014	RUWSU, secure guide wires. Check well pressure, tbg/ csg 0 psi. ND well head tree, NUBOP and snub unit. Pressure test BOP/ snub unit 300 - 1000 psi high - good test. Pull up on hanger and J off packer, LD hanger. Pressure test casing/ packer 1070# for 30 min - good. TOOHH with 2 7/8" Duoline 80 jts standing back in derrick. Found loose connections on # 35 @ 1164', # 42 @ 1357', # 48 @ 1552', # 58 @ 1874' from surface. SDFN.				
53	1/28/2014	1/28/2014	Tbg/ csg 0 psi. TOOHH w/ Duoline tbg, standing back. Found loose connection #100, 119, 120, 158 jts. TOOHH with rest of tbg, total 167 jts duoline. Check on/off tool, top seal OK, bottom seal chunk of rubber missing, could be from J on and off while spacing out for sub joints. Called Danile with PLS about torque setting. MU new on/off tool with torque, set at 1240#, re-marking pin ends/ drifting tbg. RIH with rest of tbg out of derrick, 165 jts.				
54	1/29/2014	1/29/2014	( TC1A - EN With 2 1/2 BPV ), landing jt, 4' sub, 166 jts, 2 7/8 X 2 3/8 pin XO, 7" X 2 1/2" T-2 on /off tool w/ 1.81 F nipple, is @ 5,419.32 KB, 2 3/8 X 2 7/8 XO, 7" X 2 1/2 AS1X packer is @ 5,427.37 KB, 2 7/8 box X 2 3/8 pin XO, 2 3/8 X 1.78 R profile nipple, and 2 3/8 wire line re entry guide is @ 5,429.37 KB. Tbg test 2700# good, Csg test 1150# good test. Note: Packer was never pull, Just on off tool was change. Ever thing is same depth.				
55	1/30/2014	1/30/2014	RDWSU. SI M&R load up equipment on trailer's move rig to N15 MCU. Rih with shear tool pressure up tbg 1500# shear disc pressure up 1800#, Rih with fish out 1.78 blanking @ 5421' WL depth. Performed MIT and it passed 1000# for 30 min Chart and witnessed by Jean Bia. MWS install lateral line. notified Pierce Benally well ready. Final Report.				

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-603-407
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
<b>2. NAME OF OPERATOR:</b> RESOLUTE NATURAL RESOURCES		<b>7. UNIT or CA AGREEMENT NAME:</b> RATHERFORD
<b>3. ADDRESS OF OPERATOR:</b> 1675 Boradway Ste 1950 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> RATHERFORD UNIT 29-43H
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1968 FSL 0610 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 29 Township: 41.0S Range: 24.0E Meridian: S		<b>9. API NUMBER:</b> 43037164340000
<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH		<b>COUNTY:</b> SAN JUAN
<b>STATE:</b> UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/29/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Resolute completed deepening this injector and put the well back to injection on 12-19-13. Well history is attached.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> March 26, 2014		
<b>NAME (PLEASE PRINT)</b> Sherry Glass	<b>PHONE NUMBER</b> 303 573-4886	<b>TITLE</b> Sr Regulatory Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/25/2014	



## Well History

Well Name: Ratherford U 2943

API Number 4303716434	Section 29	Township 41S	Range 24E	Field Name Ratherford	County San Juan	State/Province Utah
Ground Elevation (ft) 4,858.50	Original KB Elevation (ft) 4,875.00	KB-Ground Distance (ft) 16.50	Regulatory Spud Date 3/26/1959 00:00	Rig Release Date/Time 4/20/1959 00:00	First Production Date 4/24/1959	

Date	Event
3/26/1959	Cement: Des: Surface Casing Cement ; Eval Res: TOC in annulus @ 274' per CBL 10/8/2013 ; Com: <Comment?>
3/26/1959	Wellbore Section: Section Des: Surface ; Size: 15 in; Act Top: 0.0 ftKB; Act Btm: 160.0 ftKB
3/26/1959	Cement: Des: Production Casing Cement ; Eval Res: <Cement Evaluation Results?>; Com: <Comment?>
3/26/1959	Cement: Des: Plug ; Eval Res: <Cement Evaluation Results?>; Com: <Comment?>
3/26/1959	Wellbore Section: Section Des: Production ; Size: 7 7/8 in; Act Top: 160.0 ftKB; Act Btm: 5,805.0 ftKB
3/26/1959	Casing String: Csg Des: Surface Casing ; Set Depth: 160.0 ftKB; Com: <Comment?>
3/26/1959	Casing String: Csg Des: Production Casing ; Set Depth: 5,805.0 ftKB; Com: Possible csg collapse 5670' - 5733' on 11/29/1986
4/20/1959	Zone: Cmpl Plot: INJ ; Top: <Top Depth?>; Btm: <Bottom Depth?>; Com: <Comment?>
11/29/1986	Perforation: Zone: INJ, Original Hole ; Top: 5,666.0 ftKB; Btm: 5,689.0 ftKB; Shot Dens: 4.0 shots/ft
11/29/1986	Perforation: Zone: INJ, Original Hole ; Top: 5,613.0 ftKB; Btm: 5,645.0 ftKB; Shot Dens: 4.0 shots/ft
11/29/1986	Perforation: Zone: INJ, Original Hole ; Top: 5,650.0 ftKB; Btm: 5,656.0 ftKB; Shot Dens: 4.0 shots/ft
6/21/1989	Stimulation/Treatment: Zone: INJ, Original Hole ; Type: Matrix Treatment ; Com: <Comment?>
9/10/2007	Other In Hole: Des: Packer ; Top: 5,290.0 ftKB; Btm: 5,300.0 ftKB; OD: 5 in
8/14/2009	Other In Hole: Des: CIBP ; Top: 5,538.0 ftKB; Btm: 5,543.0 ftKB; OD: 4.95 in
8/17/2009	Other In Hole: Des: CIBP ; Top: 5,513.0 ftKB; Btm: 5,518.0 ftKB; OD: 4.95 in
8/19/2009	Cement: Des: #1Cement Plug ; Eval Res: <Cement Evaluation Results?>; Com: 18sks, 15.6#, 1.18 yield, 5.22 gal/sks
8/20/2009	Cement: Des: #3Cement Plug ; Eval Res: <Cement Evaluation Results?>; Com: 65sks, 15.6#, 1.18 yield, 5.22 gal/sks
8/20/2009	Cement: Des: #3Cement Plug ; Eval Res: <Cement Evaluation Results?>; Com: squeeze 3.1bbls (65sks, 15.6#, 1.18 yield, 5.22 gal/sks)
8/20/2009	Cement: Des: #2Cement Plug ; Eval Res: <Cement Evaluation Results?>; Com: 18sks, 15.6#, 1.18 yield, 5.22 gal/sks
12/28/2011	Other In Hole: Des: Cement Retainer ; Top: 1,510.0 ftKB; Btm: 1,515.0 ftKB; OD: 5 in
12/28/2011	Cement: Des: Cement Plug ; Eval Res: <Cement Evaluation Results?>; Com: <Comment?>
11/10/2013	Cement: Des: Cement Plug ; Eval Res: <Cement Evaluation Results?>; Com: 130 SKS 15.8# 1.15 yield, 5.0 Gal/Sk, Set at btm depth of 487'.
11/11/2013	Wellbore Section: Section Des: Production ; Size: 8 3/4 in; Act Top: 309.0 ftKB; Act Btm: <Actual Btm Depth?>
11/23/2013	Casing String: Csg Des: Intermediate ; Set Depth: 5,488.9 ftKB; Com: TD of 8-3/4" Hole section 5491' 7" casing set @ 5488'
11/23/2013	Cement: Des: Intermediate Casing Cement ; Eval Res: Good Cement job SUCCESS ; Com: Cement 1st stage 7" casing, Job as follows: Test lines Pump 20 BBLs of mud flush, 5 bbl of fresh water, 86.8 bbl's 250 SKS 1.95 yield of lead cement, 20.5 bbl's 100SKS 1.15 yield of tail cement, Drop plug, displace W/100 bbl's mud, Displace W/30 bbl's of fresh water, displace W/88 bbl's of mud, We got 1 BBL cement returns, Plug did bump @ 560 PSI Floats held.  2nd stage cement job 7" casing, Job as follows Test lines, Pump 20 bbl's mud flush, 5 bbl's fresh water, 118 bbl's 340 sks 1.95 yield of lead cement, 20.5 bbl 100 sks 1.15 of tail cement, Drop plug, displace W/95.7 bbl's fresh water, bump plug 650 psi floats did hold, 8 bbl's cement returns.
12/3/2013	Other In Hole: Des: Bridge Plug - Temporary ; Top: 5,028.0 ftKB; Btm: 5,035.0 ftKB; OD: 7 in
12/18/2013	Tubing String: Des: Tubing - Injection ; Set Depth: 5,425.0 ftKB; Com: <Comment?>
1/27/2014	Tubing String: Des: Tubing - Injection ; Pull Reason: Pulled due to failure. ; Com: <Comment?>
1/29/2014	Tubing String: Des: Tubing - Injection/ Duoline Tbg 2nd run ; Set Depth: 5,425.0 ftKB; Com: Tbg Re Run Duoline 2 7/8"